

XXIV International Congress of Entomology

'New Era in Entomology'

August 19-25, 2012 | Daegu, Korea

PROGRAM



色彩生動

[Colorful Daegu, Wonderful Destination]

Colorful
DAEGU

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Daegu has got what it takes to be the place for
all kinds of conventions!

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ICE 2012 DAEGU
KOREA

**XXIV
International
Congress of
Entomology**

XXIV

International Congress of Entomology

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Welcome Message

from the Chairman of the ICE Council

On behalf of the Council for International Congress of Entomology, I extend a warm welcome to all Fellow Entomologists participating in the "XXIV International Congress of Entomology", being hosted by the Entomological Society of South Korea. The Congress theme, "New Era in Entomology", is highly appropriate one to usher in a new revolution in entomology science, and its application for conservation of biodiversity and environment, and minimize the losses due to insect pests for increasing crop production and food security.

The scientific deliberations spread over 17 sections with six plenary speakers of integration repute will create an awareness of the progress made, and the challenges that we need to address for sustainability of the environment and food security. The congress will also provide an opportunity to discuss some of the important issues such as use of genetically modified plants, natural enemies, and microbes for pest management, and their biosafety to the environment.

Application of molecular tools for detection and identification of insects and development of more productive strains of silk worm, honeybees, and pollinators will also be discussed. However, rapid and cost effective development, and adoption of biotechnology-derived products will depend on developing a full understanding of the interaction of genes within their genomic environment, and with the external environment in which their conferred phenotype must interact.

Another important topic being discussed is the effect of global warming on insect pests, and its implications for pest management. Critical issues related to invasive species, bio-security, development of resistance to insecticides and genetically engineered plants will also be addressed during the congress.

The enthusiasm and excitement displayed by the Organizing Committee and the local administration certainly promises that the "XXIV International Congress of Entomology" will be a grand success. The Organizing Committee of the XXIV International Entomology Congress has left no stone unturned to make it a grand success, and I look forward to your enthusiastic participation and contributions to make it a grand success.



Hari C. Sharma

Chairman, Council of the International Congress of Entomology

Welcome Message

from the President of the ICE2012



Dear Colleagues,

The Entomological Society of Korea, the Korean Society of Applied Entomology, the Korean Society of Sericultural Science, the Apicultural Society of Korea, and the Local Organizing Committee for the XXIV International Congress of Entomology cordially invite you to attend this major event, to be held in Daegu, Republic of Korea. The Local Organizing Committee, in collaboration with our professional congress organizers, is glad to invite entomologists from all over the world to XXIV ICE2012 in Daegu, Republic of Korea between 19-25, August, 2012. Since Korea peninsula is located between mainland China, and Japanese islands, the fauna of insect has also an important role in Asia. We have been working extremely hard to develop a truly dynamic forum for the exchange of new information and ideas of significance to entomologists of all persuasions from around the world.

It would be a great pleasure for us if you accept our invitation. We are convinced, that this congress will fit into the series of these developing gatherings of our entomologists, and outstanding as much as its content and atmosphere are concerned.

With this landmark event we celebrate the first International Congress of Entomology to be staged in Korea. We are confident that Daegu and EXCO, the acclaimed International Convention Centre will live up to your high expectations as well as convenient accommodation, and we encourage our colleagues throughout the world to use this opportunity to get a glimpse of Korean peninsula's astonishing insect fauna, to engage with its entomologists and to enjoy hospitality of the Republic of Korea.

We look forward to welcoming you to Daegu.

Byungjin Kim
President, ICE2012

Local Organizing Committees

President of Local Organizing Committee

Byung-Jin KIM (Prof., Wonkwang Univ., Korea)

Deputy President of Local Organizing Committee

Young-Joon AHN (Prof., Seoul National Univ., Korea)

Advisory Committee

Thomas MILLER (Prof., Univ. of California, Riverside, USA)
Van EMDEN (Prof., Univ. of Reading, UK)
Michael CLARIDGE (Prof., Univ. of Cardiff, UK)
Sang Ho NAM (Prof., Daejeon Univ., Korea)
Yong Jung KWON (Prof., Kyungpook National Univ., Korea)

Secretary Office

Secretary General

Chi-Young YUN (Prof., Daejeon Univ., Korea)

Deputy Secretary

Kyung Jin MIN (Prof., Inha Univ., Korea)
Yeon Soo HAN (Prof., Chonnam National Univ., Korea)

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Deputy Chair

Si Hyeock LEE (Prof., Seoul National Univ., Korea)

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Chair

Dong Ro CHOI (Director, National Institute of Horticultural and Herbal Science, Rural Development Administration, Korea)

Deputy Chair

Sang-Chul SHIN (Head, Div. Forest Pests & Diseases, Korea Forest Research Institute, Korea)
Myeong Rae JO (Senior Researcher, National Institute of Horticultural & Herbal Science, Rural Development Administration, Korea)

Publication Committee

Chair

Ohseok KWON (Prof., Kyungpook National Univ., Korea)

Deputy Chair

Kijong CHO (Prof., Korea Univ., Korea)

Coordinating Committee

Chair

Ho-Yong PARK (Dr., Korea Research Institute of Bioscience & Biotechnology, Korea)

Deputy Chair

Soowon CHO (Prof., Chungbuk National Univ., Korea)
Chang Soo KANG (Prof., Hoseo Univ., Korea)
Um Taek LIM (Prof., Andong National Univ., Korea)

Registration Committee

Chair

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Deputy Chair

Byung Rae JIN (Prof., Dong-A Univ., Korea)
Yeonho JE (Prof., Seoul National Univ., Korea)

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Deputy Chair

Soo-Dong WOO (Prof., Chungbuk National Univ., Korea)
Myeong-Lyos LEE (Dr., Rural Development Administration, Korea)

Tour Committee

Chair

Yong Man YU (Prof., Chungnam National Univ., Korea)

Deputy Chair

MyungIn MOON (Prof., Dankook Univ., Korea)

Internet Information Committee

Chair

Chul Eui JUNG (Prof., Andong Univ., Korea)

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Se Woong CHOI (Prof., Mokpo National Univ., Korea)

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Chair

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Deputy Chair

Hyung Wook KWON (Prof., Seoul National Univ., Korea)
Kang Woon LEE (Dr., Holocene Ecosystem Conservation Research, Korea)

Young Entomologist Committee

Chair

Yong-Lak PARK (Prof., West Virginia Univ., USA)
Jeff BRADSHAW (Univ. of Nebraska, USA)

Student Representative

Christian MORGAN (Univ. of California, Riverside, USA)

Women Entomologist Committee

Chair

Genet M. TULGSKSE (Univ. of California, Riverside, USA)

Deputy Chair

Kyung-Hwa PARK (Chonbuk National Univ., Korea)

Useful Information



ATMs

You will find Automated Teller Machines on nearly every street corner or in convenience stores. ATMs are in the venue.



BUSINESS HOURS

For most government and private offices, business hours are from 9am to 6pm Monday to Friday. Banking hours are from 9am to 4pm Monday to Friday. Business hours for ATMs are vary, and it is written on the machine. However, they are not generally open 24 hours. Post offices are open from 9am to 6pm Monday to Friday.



CLIMATE

The temperature in Daegu in August ranges approximately between 30-34°C degrees.



CURRENCY

The unit of Korean currency is the Won(W). Coin denominations are ₩10, ₩50, ₩100 and ₩500. Banknotes are ₩1,000, ₩5,000, ₩10,000 and ₩50,000.

- **Currency exchange** : Foreign banknotes and traveler's check can be exchanged at foreign exchange banks and other authorized money changers.

- **Credit cards** : Diners Club, Visa, American Express and Master Card are widely accepted at major hotels, shops and restaurants. Check with your credit card company for details of merchant acceptability and other services that may be available.

- **Traveler's check** : Accepted, but may be difficult to change in small shops. To avoid additional exchange rate charges, travelers are advised to bring Traveler's checks in US Dollars.



ELECTRICITY

In Korea, 220 volt outlets are usual. Always check the power supply before using your equipment.



EMERGENCIES

112 : Police

119 : Emergencies for Fire / Rescue & Hospital Services



LOCAL TIME

Korea standard time zone is GMT + 9 hours.



SMOKING

Smoking is prohibited inside the buildings in all public places in Korea.



TELEPHONE CALLS

For International calls, first dial the international dial code (001, 002 or 00700), then the country code, followed by the area code excluding first zero, then the phone number.



TIPPING

Tipping is not a traditional Korean custom. A 10% service charge is added to the bill and tipping is not expected. It is also not necessary to tip a taxi driver unless extra services are provided.



USEFUL WEBSITES

Korea National Tourism Organization (<http://kto.visitkorea.or.kr>)

Gateway to Korea (<http://www.korea.net>)

Daegu Convention & Visitors Bureau (<http://www.daeguvcvb.com/eng/index.asp>)

Korea Immigration Service (<http://www.immigration.go.kr/indeximmeng.html>)

Ministry of Foreign Affairs and Trade (<http://www.mofat.go.kr/english/visa/apply/index.jsp>)

Congress Information



REGISTRATION DESK

Please visit the Registration Desk to complete your payment and receive your Name Badge.

- Place : Exhibition Hall, 3F
- Operation Hours : Aug 19, 09:00-18:00 / Aug 20-24, 07:00-17:00



NAME BADGE

Name badge will be used as a pass. All participants are required to wear their name badge throughout the entire congress. Please note that admission to the scientific session room is restricted to the registered participants wearing their name badges. It's off limit to Accompanying Persons and Exhibitors at all times.



ACCOMPANYING PERSONS

Accompanying Persons who are fully registered for the Congress are entitled to attend the opening ceremony, visit the exhibition and participate in the Accompanying Tour on the 21st, 23rd of August from 13:30-18:00.



ACCOMMODATION & TOUR INFORMATION DESK

- Place : Next to Registration Desk, Exhibition Hall, 3F
- Operation Hours : Aug 19, 09:00-18:00 / Aug 20-24, 07:00-17:00
- Telephone number : (053)601-6864 / 6865



PREVIEW ROOM

All speakers must visit the Preview Room, 3F and check and upload your presentation files before your presentation.

- Operation Hours : Aug 19, 14:00-18:00 / Aug 20-24, 08:00-17:00



POSTER SESSION

Taxonomy, Physiology, and Ecology : Aug 20-21, 10:00-18:00 / Aug 22, 10:00-12:00
IPM, Pathology, Medical Entomology, Others : Aug 22, 12:00 - Aug 24, 18:00

- Place : Exhibition Hall, 3F



MESSAGE BOARD

Participants will have the opportunity to exchange messages with other participants and get updated session information on the Message board.

- Place : 3F, Next to the Information desk



CLOAK ROOM

- Place : Exhibition Hall 3F
- Operation Hours : Aug 19, 16:00-21:00 / Aug 20-24, 09:00-17:30



CAFETERIA & RESTAURANT FOR LUNCH

- Cafeteria : 10:00-18:00 / Exhibition Hall 3F
- Restaurant for Lunch : 12:00 - 14:00 / Exhibition Hall 2, 1F (Operated by Hotel Inter-burgo EXCO)

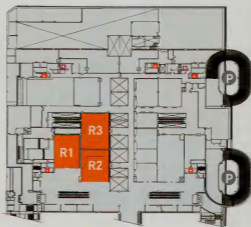


INTERNET LOUNGE & WIFI

The internet lounge will be located in cafeteria, Exhibition Hall 3F during the Congress and wireless internet (WIFI) will also be available throughout the EXCO.

Venue Maps

B1



2F



R1-R4 Session Room



R5-R21 Session Room

A Information Desk

B Salad Room(M)

C Salad Room(W)

D Cloak Room

E Medical Center

F Preview Room

G Press Center



R22 Session Room

H ICE Council Office

I LOC Office

J PCO Office

* "R" stands for Room

Accommodation

	No	Hotel	Telephone
Daegu	1	Hotel Inter-Burgo Daegu	(053) 602-7114
	2	Novotel Ambassador Daegu	(053) 604-1101
	3	The Grand Hotel Daegu	(053) 742-0001
	4	Hotel Inter-Burgo EXCO	(053) 380-0114
	5	Salnt Western Hotel	(053) 589-6700
	6	Daegu Prince Hotel	(053) 628-1001
	7	Hotel J's	(053) 756-6601
	8	Hotel Daegu	(053) 559-2100
	9	Hotel Ariana	(053) 765-7776
	10	Palgong Park hotel	(053) 985-0808
	11	Palgong Spa Tourist Hotel	(053) 985-8080
	12	Union Tourist hotel	(053) 252-2221
	13	Midus Hotel	(053) 752-6230
	14	Apsan Business Hotel	(053) 625-8118
	15	Hermes Hotel	(053) 764-2200
	16	In the Hotel	(053) 746-0107
Gyeongju	17	Hotel Concorde in Gyeongju	(053) 745-7000
Greenstel	18	Interpark Motel	(053) 381-1704
	19	Gloria Motel	(053) 384-8080
	20	Royalpark-jang Motel	(053) 744-8247
	21	Whang-je Motel	(053) 752-3661
	22	Oasis Motel	(053) 746-5244
	23	Ritz Motel	(053) 753-4976
	24	Chanel Motel	(053) 754-6331
	25	Bali Motel	(053) 743-6538

* All ICE2012 official motels are authorized their qualities by Daegu Metropolitan City.

Nearby Restaurant



For Entertaining Your Guests and Friends

- | | | | | | |
|------|-------------------------------------|---------------------------------------|------|------------------------|--------------------------------------|
| A-01 | Hanu Shale 한강 수질 | Korean text: 053-382-7111 | A-11 | Daejeon Hanu Chongmu | Korean text: 053-284-9231 |
| A-02 | Amnyeong 1911 | Traditional Korean text: 053-382-2238 | A-12 | Hangjuwang Han Chongmu | Korean text: 053-285-2234 |
| A-03 | Runing 401 | Chinese text: 053-381-4700 | A-13 | Hegangwang Heqiang | Sushi text: 053-381-3206 |
| A-04 | Yegina 001 | Chinese text: 053-380-6271 | A-14 | Haeung Borsong Borsong | Borsong/Borsong dishes: 053-282-2234 |
| A-05 | Dongdaehang 1911 | Chinese text: 053-386-6290 | A-15 | Chengwang 1911 | Japanese text: 053-381-3551 |
| A-06 | Bien Yu Preservations required 1911 | Sushi text: 053-380-6220 | A-16 | Gaueon 1st | Buffet: 053-280-2600-12 |
| A-07 | Annyuon Preservations required 1911 | Japanese text: 053-380-6222 | A-17 | Alibon Sea Castle 1911 | Shabu shabu: 053-281-9979 |
| A-08 | Manchukuo Seijun 1911 | Golf: 053-381-9277 | A-18 | Daejeon Shabu Shabu | Shabu shabu: 053-381-9979 |
| A-09 | Yongdang 1911 | Golf: 053-384-0231 | A-19 | Seoul Seon Seon | Seoul Seon Seon: 053-384-4415 |
| A-10 | Gemajong 1911 | Golf: 053-381-8588 | A-20 | Bosong Borsong Borsong | Stained wood/corncakes: 053-381-3551 |

Enjoy the Unique and Best Meals in Town

- | | | | | | |
|------|-------------------------------------|--|------|--|---|
| #-01 | Myangni [가을] | Japanese food: 053-381-1171 | #-15 | Yeggi Samgyeol [제육볶음] | Grilled pork belly: 053-381-5577 |
| #-02 | Gatbaal Saengjuk Sundubu [갯바위생쥐순두부] | Salt soy soup: 053-381-6866 | #-16 | Yeggi Samgyeol [제육볶음] | Stir-fried beefed pork: 053-383-6760 |
| #-03 | Saeol Taalbeung [새울 태뵤] | Spicy Korean soup: 053-383-4516 | #-17 | Yewonjaeng Samgyeol [연화정삼겹살] | Samgyeol: 053-384-9982 |
| #-04 | Seongnam Jambong [성남장육] | Chinese food: 053-384-0838 | #-18 | Hyukwonchoong Chuseong-dong Haejangjuk | Stir-fried spicy pork and spicy pork soup |
| #-05 | Bongheon-gamjang Nakgae [봉현감장낙개] | Spicy soup: 053-383-0110 | | Beef and chicken: 053-381-1000 | 053-381-1000 |
| #-06 | Jeonjuhan Gaejang [전주한갈장] | Spicy Korean food: 053-383-0110 | #-19 | Yegyeon [제육볶음] | Stir-fried beef: 053-384-5656 |
| #-07 | Hwang [황] | Duck dishes: 053-381-5200 | #-20 | Asa-himachi [아사히마치] | Sea food, spicy short-ribs and beef: 053-384-0964 |
| #-08 | Wangje Eotang [왕제탕] | Spicy fish stew: 053-381-9550 | #-21 | Notbu Budaejjang [북두부부대찌개] | Budaejjang: 053-383-7885 |
| #-09 | Namwon Chuseong [남원추성] | Gourmet food/pollen/beer: 053-381-0169 | #-22 | Yonli Hwang [영리황] | Korean-style pork (big beef): 053-383-6170 |
| #-10 | Andong Gakchi [안동각치] | Soup: 053-381-1131 | #-23 | Yatong Solbong [야통솔봉] | Bowlfish (Ayu) dishes: 053-383-8831 |
| #-11 | Yonginwon [영인원] | Chinese food: 053-382-3432 | #-24 | Daejeong Dalbajagi [대정달바자] | Beef: 053-382-8080 |
| #-12 | Minyong Nakgae [민영낙개] | Chinese food: 053-384-4030 | #-25 | Yongin Borsam [영인보쌈] | Borsam: 053-383-2025 |
| #-13 | Sosun Gamjatang Nakgae [산순갈장낙개] | Rice served in hot soup: 053-384-3398 | #-26 | Sosun Boryeong [산순보령] | Beef: 053-381-1212 |
| #-14 | Hwangjinhwan [황진환] | Beef: 053-384-3858 | #-27 | Byeotnam [비엇남] | Chilled beef and duck in soup: 053-383-0110 |

Satisfy Your Taste Buds, Boost up Your Spirit!

- | | | |
|---|--------------------------------|---|
| C-01 W 원주사지 | Wye, Isaac 053-380-0290 | C-05 Bulhan Seobul Shin 가락불이산불현무 C12 Grilled sea veils 053-381-7886 |
| C-02 Lee Dong-jun Seonam Gochang Makchang | Makchang 053-381-8885 | C-06 Seonam Seonam Gochang 신선대만경지 C13 Grilled deer of cow's medicinalities 053-384-1447 |
| 이동준선남곡매정 | | C-07 Tamsen 양자점 |
| | | C-08 Cuckoo and Ficus calligraphy 053-384-3598 |
| C-03 Cass 배자더 | Wye, whiskey 053-383-9368 | C-09 Cuckoo 배자더 |
| C-04 Nangmae 남매 | Weren, food, beer 053-383-1486 | C-10 Cuckoo and Ficus calligraphy 053-381-1145 |
| | | Wye, whiskey 053-381-6636 |

Shuttle Bus Schedule

Line A [Palgong Park Hotel & Palgong Spa Tourist Hotel – EXCO]

*Travel time : 45 mins

Aug 19		Aug 20 - 21		Aug 22		Aug 23		Aug 24	
Palgong → EXCO	EXCO → Hotel	Palgong → EXCO	EXCO → Hotel	Palgong → EXCO	EXCO → Hotel	Palgong → EXCO	EXCO → Hotel	Palgong → EXCO	EXCO → Hotel
15:00	21:00	7:00	17:50	7:00	12:50	7:00	17:50	7:00	17:50
16:00		8:00	18:20	8:00	13:20	8:00	18:20	8:00	18:20
16:30				17:00	21:30				21:30
17:00				17:30					
17:30									

Line B [Hotel J's - Motel Area - EXCO]

*Travel time : 30 mins

Aug 19			Aug 20 - 21			Aug 22			Aug 23			Aug 24		
J's → Motel Area	Motel Area → EXCO	EXCO → Hotel	J's → Motel Area	Motel Area → EXCO	EXCO → Hotel	J's → Motel Area	Motel Area → EXCO	EXCO → Hotel	J's → Motel Area	Motel Area → EXCO	EXCO → Hotel	J's → Motel Area	Motel Area → EXCO	EXCO → Hotel
15:00	15:03	21:00	7:10	7:13	17:50	7:10	7:13	12:50	7:10	7:13	17:50	7:10	7:13	17:50
16:00	16:03		7:20	7:23	18:20	7:20	7:23	13:20	7:20	7:23	18:20	7:20	7:23	18:20
16:30	16:33		8:10	8:13		8:10	8:13	21:30	8:10	8:13		8:10	8:13	21:30
17:00	17:03		8:20	8:23		8:20	8:23		8:20	8:23		8:20	8:23	
17:30	17:33					17:10	17:13							
						17:40	17:43							

* Following accommodations belong to Motel Area;

Whangje Motel, In the Hotel, Ritz Motel, Oasis Motel, Chanel Motel, Bally Motel, Royal Park Motel

Line C [Hotel Inter-Burgo Daegu – EXCO]

*Travel time : 30 mins

Aug 19		Aug 20 - 21		Aug 22		Aug 23		Aug 24	
Inter-Burgo → EXCO	EXCO → Hotel	Inter-Burgo → EXCO	EXCO → Hotel	Inter-Burgo → EXCO	EXCO → Hotel	Inter-Burgo → EXCO	EXCO → Hotel	Inter-Burgo → EXCO	EXCO → Hotel
15:00	21:00	7:20	17:50	7:20	12:50	7:20	17:50	7:20	17:50
16:00		7:30	18:20	7:30	13:20	7:30	18:20	7:30	18:20
16:30		8:20		8:20	21:30	8:20		8:20	21:30
17:00		8:30		8:30		8:30		8:30	
17:30				17:20					
				17:50					

* Please be aware that Hotel Inter-Burgo Daegu is different from Hotel Inter-Burgo EXCO, which locates near to the Venue.

Line D [The Grand Hotel Daegu - Hermes Hotel - Hotel Ariana - EXCO]

*Travel time : 30 mins

Aug 19				Aug 20 - 21				Aug 22				Aug 23				Aug 24			
Grand → Hermes	Hermes → Ariana	Ariana → EXCO	EXCO → Hotel	Grand → Hermes	Hermes → Ariana	Ariana → EXCO	EXCO → Hotel	Grand → Hermes	Hermes → Ariana	Ariana → EXCO	EXCO → Hotel	Grand → Hermes	Hermes → Ariana	Ariana → EXCO	EXCO → Hotel	Grand → Hermes	Hermes → Ariana	Ariana → EXCO	EXCO → Hotel
15:00	15:05	15:10	21:00	7:00	7:05	7:10	17:50	7:00	7:05	7:10	12:50	7:00	7:05	7:10	17:50	7:00	7:05	7:10	17:50
16:00	16:05	16:10		8:00	8:05	8:10	18:20	8:00	8:05	8:10	13:20	8:00	8:05	8:10	18:20	8:00	8:05	8:10	18:20
16:30	16:35	16:40						17:00	17:05	17:10	21:30								21:30
17:00	17:05	17:10						17:30	17:35	17:40									
17:30	17:35	17:40																	

* For those who stays in Midus Hotel, please take shuttle bus at Grand Hotel Bus stop at the Main Entrance of Grand Hotel.

Line E [Apsan Business Hotel - Daegu Prince Hotel - Novotel Daegu - Union Tourist Hotel - EXCO]

*Travel time : 50 mins

Aug 19					Aug 20 - 21				
Apsan → Prince	Prince → Novotel	Novotel → Union	Union → EXCO	EXCO → Hotel	Apsan → Prince	Prince → Novotel	Novotel → Union	Union → EXCO	EXCO → Hotel
15:00	15:05	15:15	15:25	21:00	7:00	7:05	7:15	7:25	17:50
16:00	16:05	16:15	16:25		8:00	8:05	8:15	8:25	18:20
16:30	16:35	16:45	16:55						
17:00	17:05	17:15	17:25						
17:30	17:35	17:45	17:55						

Aug 22					Aug 23					Aug 24				
Apsan → Prince	Prince → Novotel	Novotel → Union	Union → EXCO	EXCO → Hotel	Apsan → Prince	Prince → Novotel	Novotel → Union	Union → EXCO	EXCO → Hotel	Apsan → Prince	Prince → Novotel	Novotel → Union	Union → EXCO	EXCO → Hotel
7:00	7:05	7:15	7:25	12:50	7:00	7:05	7:15	7:25	17:50	7:00	7:05	7:15	7:25	17:50
8:00	8:05	8:15	8:25	13:20	8:00	8:05	8:15	8:25	18:20	8:00	8:05	8:15	8:25	18:20
17:00	17:05	17:15	17:25	21:30										21:30
17:30	17:35	17:45	17:55											

Shuttle Bus Schedule

Line F [Saint Western Hotel - Hotel Daegu - EXCO]

*Travel time : 45 mins

Aug 19			Aug 20 - 21			Aug 22			Aug 23			Aug 24		
Saint ↕ HTL Daegu	HTL Daegu ↕ EXCO	EXCO ↕ Hotel	Saint ↕ HTL Daegu	HTL Daegu ↕ EXCO	EXCO ↕ Hotel	Saint ↕ HTL Daegu	HTL Daegu ↕ EXCO	EXCO ↕ Hotel	Saint ↕ HTL Daegu	HTL Daegu ↕ EXCO	EXCO ↕ Hotel	Saint ↕ HTL Daegu	HTL Daegu ↕ EXCO	EXCO ↕ Hotel
15:00	15:15	21:00	7:10	7:25	17:50	7:10	7:25	12:50	7:10	7:25	17:50	7:10	7:25	17:50
16:00	16:15		8:10	8:25	18:20	8:10	8:25	13:20	8:10	8:25	18:20	8:10	8:25	18:20
16:30	16:45					17:10	17:25	21:30						21:30
17:00	17:15					17:40	17:55							
17:30	17:45													

Line G [Hotel Concorde in Gyeongju - EXCO]

*Travel time : 80 mins

Aug 19		Aug 20 - 21		Aug 22		Aug 23		Aug 24	
Concorde ↕ EXCO	EXCO ↕ Hotel	Concorde ↕ EXCO	EXCO ↕ Hotel	Concorde ↕ EXCO	EXCO ↕ Hotel	Concorde ↕ EXCO	EXCO ↕ Hotel	Concorde ↕ EXCO	EXCO ↕ Hotel
13:00	21:00	6:30	17:50	6:30	12:50	6:30	17:50	6:30	17:50
15:00		7:30	18:20	7:30	13:20	7:30	18:20	7:30	18:20
16:30				17:00	21:30				21:30
				17:30					

Line H [Kyungpook Univ. Jilli-gwan - Hyangto-gwan - EXCO]

*Travel time : 25 mins

Aug 20 - 21			Aug 22			Aug 23			Aug 24		
Jilli ↕ Hyangto	Hyangto ↕ EXCO	EXCO ↕ Hotel	Jilli ↕ Hyangto	Hyangto ↕ EXCO	EXCO ↕ Hotel	Jilli ↕ Hyangto	Hyangto ↕ EXCO	EXCO ↕ Hotel	Jilli ↕ Hyangto	Hyangto ↕ EXCO	EXCO ↕ Hotel
7:20	7:25	12:50	7:20	7:25	12:50	7:20	7:25	17:50	7:10	7:13	17:50
8:20	8:25	13:20	8:20	8:25	13:20	8:20	8:25	18:20	7:20	7:23	18:20
17:20	17:25	21:30						21:30	8:10	8:13	21:30
17:50	17:55								8:20	8:23	

Tour Program

> Accompanying tour

Price : Free of charge all registered accompanying persons

Meeting & Break-up point : In front of Exhibition Hall 1F, EXCO

Schedule : Aug 21, 23 (either of two days)

* Please check your pre-arranged schedule at ICE2012 Tour desk located in Exhibition Hall 3F, EXCO.

> Optional tour

On-site reservation available

Meeting & Break-up point : In front of Exhibition Hall 1F, EXCO

Price & Schedule : see the table below

* If you have questions regarding Optional Tour, please visit ICE2012 Tour desk located in Exhibition Hall 3F, EXCO.

> Pre/Post Congress tour

The reservation for pre-congress tour as well as post-congress tour is currently closed.

For those who have joined the Pre/Post tour program, please be in a close contact with the Housing & Tour Bureau to clarify your schedule.

Category	Code	Date	Time	Itinerary	Price
Optional Tour	OT-2	Aug 20 (Mon)	13:30 - 18:00	Donghwasa Temple (Temple Life)	KRW 61,000 (Excl. Lunch)
	OT-5	Aug 21 (Tue)	13:30 - 18:00	Guam Village - Daegu Bangjja Yugi Museum - Paigongsan (Cultural heritage)	KRW 43,000 (Excl. Lunch)
	OT-11	Aug 22 (Wed)	08:30 - 17:30	Seokguram Grotto - Bulguksa Temple - Daeneungwon - Gyeongju National Museum	KRW 80,000 (Incl. Lunch)
	OT-12	Aug 23 (Thu)	13:30 - 18:00	Daegu Yangnyeongsi (Yangyengsi Oriental Culture Center - Soriso (Oriental Medicine Skin Care Center))- Seomun Market	KRW 79,000 (Excl. Lunch)
	OT-20	Aug 23 (Thu)	13:30 - 17:30	Daegu National Museum - Seomun Market	KRW 42,000 (Excl. Lunch)
	OT-21	Aug 23 (Thu)	13:30 - 17:30	Daegu Bangjja Yugi Museum - Donghwasa temple	KRW 45,000 (Excl. Lunch)
Accompanying Tour	AT-1 ~ 4	Aug 21(Tue) Aug 23(Thu)	13:30 - 17:30	Yangnyeongsi Oriental Medicine Cultural Center - Youngdodaum	Included in Registration fee

Official & Special Events

> Official Events

Opening Ceremony & Wigglesworth Memorial Lecture

Date : Aug 19(Sun) / Time : 17:30-19:00

Place : Auditorium 5F, EXCO

Welcome Reception

Date : Aug 19(Sun) / Time : 19:30-21:00

Place : Convention Hall 5F, EXCO

Gala Dinner

Date : Aug 22(Wed) / Time : 18:30-21:00

Place : Grand Ballroom B1, Hotel Inter-Burgo EXCO

Closing Ceremony & Farewell Dinner

Date : Aug 24(Fri) / Time : 18:00-18:30 / 19:00-21:00

Place : Convention Hall 5F, EXCO

> Special Event

Organizer Mixer

(hosted by Local Organizing Committee) invited only.

Date : Aug 23(Thu)

Time : 18:00-20:00

Place : Auditorium Lobby 5F, EXCO

4 - 8 August 2013
O'Reillys Rainforest
Retreat QLD, Australia

The 6th International symposium
on the biology and ecology of
galling arthropods and related
endophytes

for more information visit:
www.6isbegia.org



Welcoming biologists to ancient Australian rainforests

Interest Group Meetings

> August 20(Mon)

IOBC Group Meeting

(hosted by IOBC)

General Assembly of the International Organization for Biological Control (IOBC) and keynote lecture by Willem Takken(Wageningen University, The Netherlands)

"Can biological control help to eliminate malaria: a case study from Rusinga Island, western Kenya"

Time : 18:00-21:00 Place : R5, 3F, EXCO

Global Meeting of the Entomological Society Presidents

(Organized by Grayson C. Brown, President, Entomological Society of America and Antonio R. Panizzi, President, Sociedade Entomológica do Brasil)

Meeting

Time : 16:00-17:30 Place : Raon Room, 3F, Hotel Inter-Burgo EXCO

Reception

Time : 17:30-19:00 Place : Bien Vu, 17F, Hotel Inter-Burgo EXCO

> August 21(Tue)

Informal meeting of leaf beetle (sensu lato) enthusiasts

(hosted by Jong Eun Lee and Michael Schmitt)

The meeting shall provide a chance for informal exchange of scientific and personal news, to get into contact with colleagues in a relaxed atmosphere, and to discuss organizational matters of the coming symposia on leaf beetles.

Time : 18:00-20:00 Place : R10, 3F, EXCO

Annual Business Meeting

(hosted by International Branch of the Entomological Society of America (IB-ESA))

This will constitute the annual business meeting of the IB-ESA for 2012

Time : 18:00-19:00 Place : R19, 3F, EXCO

ICE Council & LOC Meeting

(hosted by ICE Council)

Time : 18:00-19:00 Place : Blue bell, B1, Hotel Inter-Burgo EXCO

International Society of Hymenopterists Business Meeting

(hosted by John Heraty, University of California, Riverside)

The International Society of Hymenopterists will hold its annual meeting to discuss the ISH business and publishing model, recognize award recipients and discuss means of increasing student awards. All interested Hymenopterists are welcome.

Time : 18:00-19:30 Place : R5, 3F, EXCO

> August 22(Wed)

Luncheon Symposium

(hosted by LG Electronics) Invited only.

Theme : New Development in Mosquito Repellent Technology

Time : 12:30-14:00 Place : R4, 3F, EXCO

> August 23(Thu)

LOC & ICE Council Meeting

(hosted by Local Organizing Committee)

Time : 12:30-14:00 Place : Dong Bo Seong, 2F, Hotel Inter-Burgo EXCO

Plenary Speakers



Wigglesworth Memorial Lecture

Stephen Simpson

Professor, School of Biological Science, University of Sydney, Australia

- Time : Aug 19(Sun) 18:00-19:00

- Title : From individuals to populations: a tale of swarms, cannibals, ageing and human obesity

Sponsored by The Royal Entomological Society

Place : Auditorium, 5F



Takema Fukatsu

Group Leader, Professor, National Institute of Advanced Industrial Biology and Technology, Japan

- Time : Aug 20(Mon) 08:00-09:00

- Title : Biodiversity, Symbiosis and Evolution



Thomas W. Scott

Professor, Director, Department of Entomology, University of California, USA
Mosquito Research Laboratory, USA

- Time : Aug 21(Tue) 08:00-09:00

- Title : Pathogen transmission dynamics at the human-mosquito interface



Ilkka Hanski

Professor, Department of Biological and Environmental Sciences, University of Helsinki, Finland

- Time : Aug 22(Wed) 08:00-09:00

- Title : Habitat loss and fragmentation – What happens to insect populations and species?



Christian Borgemeister

Director General and CEO, International Centre of Insect Physiology and Ecology, Kenya

- Time : Aug 23(Thu) 08:00-09:00

- Title : Insect science and poverty alleviation – tales from Africa



Kongming Wu

Director Professor, Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China

- Time : Aug 24(Fri) 08:00-09:00

- Title : Ecological Succession of Insect Populations in Bt cotton agroecosystem : a Case Analysis in China

Program at a Glance

Time	Aug 19 (Sun)	Aug 20 (Mon)	Aug 21 (Tue)	Aug 22 (Wed)	Aug 23 (Thu)	Aug 24 (Fri)	Aug 25 (Sat)
07:00-17:00		Registration					Post Tour
08:00-09:00		Plenary Session 1	Plenary Session 2	Plenary Session 3	Plenary Session 4	Plenary Session 5	
09:00-10:30		Symposium/ Oral Session	Symposium/ Oral Session	Symposium/ Oral Session	Symposium/ Oral Session	Symposium/ Oral Session	
10:30-11:00		Coffee/Tea Break					
11:00-12:30		Symposium/ Oral Session	Symposium/ Oral Session	Symposium/ Oral Session	Symposium/ Oral Session	Symposium/ Oral Session	
12:30-14:00	Registration	Lunch					
14:00-15:30		Symposium/ Oral Session	Symposium/ Oral Session	Social Program (Tour)	Symposium/ Oral Session	Symposium/ Oral Session	
15:30-16:00		Coffee/Tea Break			Coffee/Tea Break		
16:00-17:30		Symposium/ Oral Session	Symposium/ Oral Session		Symposium/ Oral Session	Symposium/ Oral Session	
17:30-18:00	Opening Ceremony & Wigglesworth Memorial Lecture	Interest Group Meetings	Interest Group Meetings	Gala Dinner	Interest Group Meetings	Closing Ceremony & Farewell Dinner	
18:00-19:00							
19:30-21:00	Welcome Reception						
10:00-18:00		Exhibition & Poster Session					

August 20 (Mon)

Room	B1			2F		R5	R6	R7	R8	R9	R10
	R1	R2	R3	R4							
0800-0900	PLENARY SESSION 1 (CONVENTION HALL SF)										
0900-1030	O101 Taxonomy Coleoptera	S1701 Special Issues Current issues on apiculture	S401 Development and Reproduction Neuropeptides in insect development and reproduction	S1001 Integrated Pest Management Chemical ecology and crop protection	S104 Systematics, Phylogeny and Zoogeography Phylogeny and Evolution of the Lepidoptera	S102 Systematics, Phylogeny and Zoogeography Systematics, biogeography and ecology of Cerambycidae and Buprestidae	S501 Genetics, Genomics and Evolutionary Entomology Comparative and functional genomics of non-Diptera insects	S301 Insect Immunology, Physiology and Neurobiology Hemolymph proteins in immunity	S101 Systematics, Phylogeny and Zoogeography Globalized insect taxonomy in the 21st century : Current accomplishments, future prospects	O401 IPM IPM Population dynamics, Dispersal, Ecology, New control techniques	
1030-1100	COFFEE / TEA BREAK										
1100-1230	O102 Taxonomy Pteroptera	S1701 Special Issues Current issues on apiculture	S401 Development and Reproduction Neuropeptides in insect development and reproduction	S1001 Integrated Pest Management Chemical ecology and crop protection	S104 Systematics, Phylogeny and Zoogeography Phylogeny and Evolution of the Lepidoptera	S102 Systematics, Phylogeny and Zoogeography Systematics, biogeography and ecology of Cerambycidae and Buprestidae	S501 Genetics, Genomics and Evolutionary Entomology Comparative and functional genomics of non-Diptera insects	S301 Insect Immunology, Physiology and Neurobiology Hemolymph proteins in immunity	S101 Systematics, Phylogeny and Zoogeography Globalized insect taxonomy in the 21st century : Current accomplishments, future prospects	O401 IPM IPM Population dynamics, Dispersal, Ecology, New control techniques	
1230-1400	LUNCH										
1400-1530	S1702 Special Issues Pathology & Microbial Control	S1701 Special Issues Current issues on apiculture	S401 Development and Reproduction Neuropeptides in insect development and reproduction	S1002 Integrated Pest Management Biology and control of spotted wing <i>Drosophila suzukii</i>	S104 Systematics, Phylogeny and Zoogeography Phylogeny and Evolution of the Lepidoptera	S103 Systematics, Phylogeny and Zoogeography Marine Insects: Systematics, ecology, phylogeny and zoogeography	S501 Genetics, Genomics and Evolutionary Entomology Comparative and functional genomics of non-Diptera insects	S302 Insect Immunology, Physiology and Neurobiology Immune mediators and cross-talk	S802 Pesticides, GM Crops, Resistance and Toxicology Insecticide resistance: Mechanism and management	O401 IPM IPM Population dynamics, Dispersal, Ecology, New control techniques	
1530-1600	COFFEE / TEA BREAK										
1600-1730	S1702 Special Issues Pathology & Microbial Control	O001 Physiology Insect Immunology		S1002 Integrated Pest Management Biology and control of spotted wing <i>Drosophila suzukii</i>	S104 Systematics, Phylogeny and Zoogeography Phylogeny and Evolution of the Lepidoptera	S103 Systematics, Phylogeny and Zoogeography Marine Insects: Systematics, ecology, phylogeny and zoogeography	S501 Genetics, Genomics and Evolutionary Entomology Comparative and functional genomics of non-Diptera insects (19:00)	S302 Insect Immunology, Physiology and Neurobiology Immune mediators and cross-talk	S802 Pesticides, GM Crops, Resistance and Toxicology Insecticide resistance: Mechanism and management	O401 IPM IPM Population dynamics, Dispersal, Ecology, New control techniques	

* IOBC Group Meeting: 18:00-21:00

* Global Meeting of the Entomological Society Presidents: 16:00-17:30 / 17:30-19:00

3F

5F

R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22
S702 Insect related Interactions at a Multi-trophic Ecosystem Multitrophic interactions under changing environmental conditions	O103 Taxonomy Diptera	S1301 Medical & Veterinary Entomology Molecular basis of vector- pathogen interactions	S1501 Acarology Bioactive molecules of ticks	S1003 Integrated Pest Management Growing potatoes: a tale of emerging and old pests	S602 Genetics, Genomics and Evolutionary Entomology Insect transgenics: techniques and applications	S801 Conservation, Biodiversity and Climate Change Insect Biodiversity and Global IPM Challenges in Climate Change	S701 Insect related Interactions at a Multi- trophic Ecosystem Phlebotomous insects: strategies and impacts on plants	S1005 Integrated Pest Management Insect life tables and their application	S1006 Integrated Pest Management Spatial dynamics and movement of insect pests	S1201 Urban, Stored Product and Post Harvest Entomology Current control practices, area wide management projects and longing behaviors of subterranean termites	
S702 Insect related Interactions at a Multi-trophic Ecosystem Multitrophic interactions under changing environmental conditions	S1101 Insect Biological Control Microbial pesticides (12-45)	S1302 Medical & Veterinary Entomology Forensic entomology	O601 Medical Entomology Medical Entomology: Surveillance & Ecology	S1003 Integrated Pest Management Growing potatoes: a tale of emerging and old pests	S602 Genetics, Genomics and Evolutionary Entomology Insect transgenics: techniques and applications	S801 Conservation, Biodiversity and Climate Change Insect Biodiversity and Global IPM Challenges in Climate Change	S701 Insect related Interactions at a Multi- trophic Ecosystem Phlebotomous insects: strategies and impacts on plants	S1005 Integrated Pest Management Insect life tables and their application	S1006 Integrated Pest Management Spatial dynamics and movement of insect pests	S1201 Urban, Stored Product and Post Harvest Entomology Current control practices, area wide management projects and longing behaviors of subterranean termites	
S1703 Special Issues Seriiculture	S1102 Insect Biological Control IOBC Global Symposium "International Exchange and Risk Assessment of Biological Control Agents"	S1302 Medical & Veterinary Entomology Forensic entomology	S1502 Acarology Dispersal and behavior of the Acari	S1003 Integrated Pest Management Growing potatoes: a tale of emerging and old pests (14-30)	S602 Genetics, Genomics and Evolutionary Entomology Insect transgenics: techniques and applications	S603 Genetics, Genomics and Evolutionary Entomology Insect mitochondrial genomics	S701 Insect related Interactions at a Multi- trophic Ecosystem Phlebotomous insects: strategies and impacts on plants	S1005 Integrated Pest Management Insect life tables and their application	S1006 Integrated Pest Management Integrated and biological control of greenhouse pests	S1201 Urban, Stored Product and Post Harvest Entomology Current control practices, area wide management projects and longing behaviors of subterranean termites	S1103 Insect Biological Control Present status and future prospects of biological control in Asia
S1703 Special Issues Seriiculture	S1102 Insect Biological Control IOBC Global Symposium "International Exchange and Risk Assessment of Biological Control Agents"	S1302 Medical & Veterinary Entomology Forensic entomology	S1502 Acarology Dispersal and behavior of the Acari	S801 Pesticides, GM Crops, Resistance and Toxicology Advanced technologies for managing insect pests (18-00)	S602 Genetics, Genomics and Evolutionary Entomology Insect transgenics: techniques and applications	S603 Genetics, Genomics and Evolutionary Entomology Insect mitochondrial genomics (18-30)		O202 Physiology Molecular Entomology (17-40)	S1004 Integrated Pest Management Integrated and biological control of greenhouse pests	O701 Entomology: General Entomology: General 1	S1103 Insect Biological Control Present status and future prospects of biological control in Asia

August 21 (Tue)

Room	B1			2F			R7	R8	R9	R10
	R1	R2	R3	R4	R5	R6				
0800-0900	PLENARY SESSION 2 (CONVENTION HALL 5F)									
0900-1000	S1401 Invasive Species and Quarantine Ecological impacts of Invasive Insects	O403 IPM IPM: Plant Resistance, RNAi, Genomics	O301 Ecology Biodiversity	O303 Physiology Insect Metabolism	S105 Systematics, Phylogeny and Zoogeography Dates and rates: diversification and dating methods and their applications to entomology	S402 Development and Reproduction Photoperiodic induction of diapause and seasonal morphs	S304 Insect Immunology, Physiology and Neurobiology Salivary proteins	S303 Insect Immunology, Physiology and Neurobiology Integrative nutrition: from physiology to ecology and beyond	S106 Systematics, Phylogeny and Zoogeography Phylogeny and evolution of the Panarctoptera	O501 Pathology & Microbial control Pathology & Microbial control
1030-1100	COFFEE / TEA BREAK									
1100-1230	S1401 Invasive Species and Quarantine Ecological impacts of Invasive Insects	O403 IPM IPM: Plant Resistance, RNAi, Genomics	O301 Ecology Biodiversity	O303 Physiology Insect Metabolism	S105 Systematics, Phylogeny and Zoogeography Dates and rates: diversification and dating methods and their applications to entomology	S402 Development and Reproduction Photoperiodic induction of diapause and seasonal morphs	S304 Insect Immunology, Physiology and Neurobiology Salivary proteins	S303 Insect Immunology, Physiology and Neurobiology Integrative nutrition: from physiology to ecology and beyond	S106 Systematics, Phylogeny and Zoogeography Phylogeny and evolution of the Panarctoptera	O501 Pathology & Microbial control Pathology & Microbial control
1230-1400	LUNCH									
1400-1530	S1402 Invasive Species and Quarantine Ecological attributes of invasive alien species	O404 IPM Chemical Control I	O301 Ecology Biodiversity	O105 Taxonomy Lepidoptera	S107 Systematics, Phylogeny and Zoogeography Phylogeny and evolution of the Diptera	S403 Development and Reproduction From embryo to metamorphosis: Genes for insect development	S404 Development and Reproduction New complexities in the regulation of insect diapause and cold hardness	S303 Insect Immunology, Physiology and Neurobiology Integrative nutrition: from physiology to ecology and beyond		
1530-1600	COFFEE / TEA BREAK									
1600-1730	S1402 Invasive Species and Quarantine Ecological attributes of invasive alien species	O404 IPM Chemical Control I	O302 Ecology Climate change effects	O105 Taxonomy Lepidoptera	S107 Systematics, Phylogeny and Zoogeography Phylogeny and evolution of the Diptera	S403 Development and Reproduction From embryo to metamorphosis: Genes for insect development (1600)	S404 Development and Reproduction New complexities in the regulation of insect diapause and cold hardness			

* S504 Co-Hosted by The International Atomic Energy Agency (IAEA)

3F											5F
R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22
<p>C104 Taxonomy Hymenoptera</p>	<p>S1007 Integrated Pest Management Fruit tree IPM</p>	<p>S1303 Medical & Veterinary Entomology Impact of climate change and natural disaster in arthropod vector</p>	<p>S1503 Acarology Current issues of Tick and Mite Collection, and Identification and Distribution of Rickettsial Parasites</p>	<p>S504 Genetics, Genomics and Evolutionary Entomology Development and evaluation of improved strains of sterile insect technique</p>	<p>S505 Genetics, Genomics and Evolutionary Entomology Sexual selection and sperm competition: Theories and applications</p>	<p>S601 Behavior and Chemical Ecology The prospect of manipulating host-plant- induced plant volatiles to improve the biological control of pest insects</p>	<p>S703 Insect related Interactions at a Multi-trophic Ecosystem Next generation study of multitrophic interactions</p>	<p>S1010 Integrated Pest Management A landscape view of cultural control</p>	<p>S1009 Integrated Pest Management Ecological genetics of crop plants in pest management: From conventional breeding to clonogenic and transgenic crops</p>	<p>S1202 Urban, Stored Product and Post Harvest Entomology Stored-product entomology</p>	<p>O405 IPM Biological Control-Natural Enemy 1</p>
<p>C104 Taxonomy Hymenoptera</p>	<p>S1007 Integrated Pest Management Fruit tree IPM</p>	<p>S1303 Medical & Veterinary Entomology Impact of climate change and natural disaster in arthropod vector</p>	<p>S1503 Acarology Current issues of Tick and Mite Collection, and Identification and Distribution of Rickettsial Parasites</p>	<p>S504 Genetics, Genomics and Evolutionary Entomology Development and evaluation of improved strains of sterile insect technique</p>	<p>S505 Genetics, Genomics and Evolutionary Entomology Sexual selection and sperm competition: Theories and applications</p>	<p>S601 Behavior and Chemical Ecology The prospect of manipulating host-plant- induced plant volatiles to improve the biological control of pest insects</p>	<p>S703 Insect related Interactions at a Multi-trophic Ecosystem Next generation study of multitrophic interactions</p>	<p>S1010 Integrated Pest Management A landscape view of cultural control</p>	<p>S1009 Integrated Pest Management Ecological genetics of crop plants in pest management: From conventional breeding to clonogenic and transgenic crops</p>	<p>S1202 Urban, Stored Product and Post Harvest Entomology Stored-product entomology</p>	<p>O405 IPM Biological Control-Natural Enemy 1</p>
<p>S1704 Special Issues Aquatic Entomology: Biodiversity, ecology and environment</p>	<p>S1008 Integrated Pest Management Ecological control of regional rice insect pests in integrated pest management protocol</p>	<p>S1304 Medical & Veterinary Entomology Emerging and re-emerging mosquito- borne viruses</p>	<p>S1012 Integrated Pest Management Recent challenges in IPM of cereal and sugarcane moth borers</p>	<p>S504 Genetics, Genomics and Evolutionary Entomology Development and evaluation of improved strains of sterile insect technique</p>	<p>S506 Genetics, Genomics and Evolutionary Entomology Physiological genomics of the insect midgut</p>	<p>S602 Behavior and Chemical Ecology Exploiting inducible plant defences in agriculture- possibilities and prospects</p>	<p>S803 Pesticides, GM Crops, Resistance and Toxicology The effects of GM crops on non-target organisms</p>	<p>S1011 Integrated Pest Management The contribution of IPM to food security in the developing world</p>	<p>S1009 Integrated Pest Management Ecological genetics of crop plants in pest management: From conventional breeding to clonogenic and transgenic crops</p>	<p>S1202 Urban, Stored Product and Post Harvest Entomology Stored-product entomology</p>	<p>S1104 Insect Biological Control Biological control of emerging pests on transgenic crops</p>
<p>S1704 Special Issues Aquatic Entomology: Biodiversity, ecology and environment</p>	<p>S1008 Integrated Pest Management Ecological control of regional rice insect pests in integrated pest management protocol</p>	<p>S1304 Medical & Veterinary Entomology Emerging and re-emerging mosquito- borne viruses</p>	<p>S1012 Integrated Pest Management Recent challenges in IPM of cereal and sugarcane moth borers</p>	<p>S504 Genetics, Genomics and Evolutionary Entomology Development and evaluation of improved strains of sterile insect technique (18:00)</p>	<p>S506 Genetics, Genomics and Evolutionary Entomology Physiological genomics of the insect midgut (18:00)</p>	<p>S602 Behavior and Chemical Ecology Exploiting inducible plant defences in agriculture- possibilities and prospects</p>	<p>S803 Pesticides, GM Crops, Resistance and Toxicology The effects of GM crops on non-target organisms</p>	<p>S1011 Integrated Pest Management The contribution of IPM to food security in the developing world (18:15)</p>	<p>O702 Entomology: General Entomology - General 2</p>	<p>S1202 Urban, Stored Product and Post Harvest Entomology Stored-product entomology</p>	<p>S1104 Insect Biological Control Biological control of emerging pests on transgenic crops</p>

* Informal meeting of leaf beetle (*sensu lato*) enthusiasts 18:00-20:00

* Annual Business Meeting 18:00-19:30

* ICE Council & LOC Meeting 18:00-19:00

* International Society of Hymenopterists Business Meeting 18:00-19:30

August 22 (Wed)

Room	B1		2F							
	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10
0800-0900	PLENARY SESSION 3 (CONT.)									
0900-1030	S1705 Special Issues Insects for foods, pharmacology, and animal feeds	S1112 Systematics, Phylogeny and Zoo- geography Aphid systematic and evolution; Systematic ecology, phylogeny and zoogeography			S1108 Systematics, Phylogeny and Zoo- geography Phylogenomics and the evolution of insects	S1109 Systematics, Phylogeny and Zoo- geography From fossils to molecules: Evolution of the stick and leaf insects	S804 Pesticides, GM Crops, Resistance and Toxicology Counter- measure Strategies for Insect Resistance to Insecticides	S305 Insect immunology, Physiology and Neurobiology Neuropeptides and GPCR	S1115 Insect Biological Control The Status Entomopathogenic Nematodes in the BioControl Ushering in the New Era	S405 Development and Reproduction Hormonal control of development
1030-1100	OFFICE / TEA BREAK									
1100-1230	S1705 Special Issues Insects for foods, pharmacology, and animal feeds (12:45)	S1112 Systematics, Phylogeny and Zoo- geography Aphid systematic and evolution; Systematic ecology, phylogeny and zoogeography			S1108 Systematics, Phylogeny and Zoo- geography Phylogenomics and the evolution of insects	S1109 Systematics, Phylogeny and Zoo- geography From fossils to molecules: Evolution of the stick and leaf insects	S804 Pesticides, GM Crops, Resistance and Toxicology Counter- measure Strategies for Insect Resistance to Insecticides	S305 Insect immunology, Physiology and Neurobiology Neuropeptides and GPCR	S1115 Insect Biological Control The Status Entomopathogenic Nematodes in the BioControl Ushering in the New Era	S405 Development and Reproduction Hormonal control of development (12:45)
1230-1400				Luncheon Symposium by LG Electronics		LUNCH				

XXIV International Congress

* S1705 Sponsored by Ministry for Food, Agriculture, Forestry and Fisheries of Korea

* Luncheon Symposium hosted by LG Electronics (R4) 12:30-14:00



3F										5F	
R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22
(DN HALL 5F)											
S507 Genetics, Genomics and Evolutionary Entomology Small non- coding RNAs and genome expression	S508 Genetics, Genomics and Evolutionary Entomology Evolutionary dynamics of insect acoustic communication	S1305 Medical & Veterinary Entomology Symbiotic microor- ganisms associated with medical, hygienic and veterinary pest arthropods	S1504 Acarology Seasonal adaptations of the Acari	S616 IAEA Group Meeting	S509 Genetics, Genomics and Evolutionary Entomology Musca domestica genetics and genomics	S604 Behavior and Chemical Ecology New science for sustainable insect pest control based on chemical ecology	S603 Behavior and Chemical Ecology Insect-host interactions: sensory and chemical profiles on host specificity	S1013 Integrated Pest Management Pattern recognition and sensing systems for IPM	S704 Insect related interactions at a Multi- trophic Ecosystem Plant-mediated effects on the ecology and evolution of multitrophic interactions	O303 Ecology Multitrophic interaction & Invasion Ecology	S1106 Insect Biological Control Insect pathology
S507 Genetics, Genomics and Evolutionary Entomology Small non- coding RNAs and genome expression	S508 Genetics, Genomics and Evolutionary Entomology Evolutionary dynamics of insect acoustic communication (13:30)	S1305 Medical & Veterinary Entomology Symbiotic microor- ganisms associated with medical, hygienic and veterinary pest arthropods	O426 IPM Chemical Control 2 (12:40)	S616 IAEA Group Meeting	S509 Genetics, Genomics and Evolutionary Entomology Musca domestica genetics and genomics	S604 Behavior and Chemical Ecology New science for sustainable insect pest control based on chemical ecology	S603 Behavior and Chemical Ecology Insect-host interactions: sensory and chemical profiles on host specificity	S1013 Integrated Pest Management Pattern recognition and sensing systems for IPM (12:45)	S704 Insect related interactions at a Multi- trophic Ecosystem Plant-mediated effects on the ecology and evolution of multitrophic interactions	O303 Ecology Multitrophic interaction & Invasion Ecology	S1106 Insect Biological Control Insect pathology

of Entomology

August 23 (Thu)

Room	B1									
	R1	R2	R3	R5	R6	R7	R8	R9	R10	R11
0800-0900	PLENARY SESSION 4 (CONVENTION HALL 5F)									
0900-1030	S1494 Invasive Species and Quarantine Biological control: Benefit Sharing and the balance between benefits and risks	S1405 Invasive Species and Quarantine Recent issues on exotic insects travelling through the continents	S1403 Invasive Species and Quarantine Biotic interactions in the context of biological invasion	S110 Systematics, Phylogeny and Zoogeography Biogeography: challenges to a biological synthesis	O304 Ecology Behavior & Chemical Ecology	S005 Pesticides, GM Crops, Resistance and Toxicology RNAi: Applications and considerations	S306 Insect Immunology, Physiology and Neurobiology The role of immunity in host-pathogen interactions	S201 Morphology and Ultrastructure Insect flight and migration: aerial performance in a changing world	S405 Development and Reproduction Evolution and development of integrated phenotypes	S510 Genetics, Genomics and Evolutionary Entomology Bioinformatics and the next-gen revolution
1030-1100	COFFEE / TEA BREAK									
1100-1230	S1404 Invasive Species and Quarantine Biological control: Benefit Sharing and the balance between benefits and risks	S1405 Invasive Species and Quarantine Recent issues on exotic insects travelling through the continents	S1403 Invasive Species and Quarantine Biotic interactions in the context of biological invasion	S110 Systematics, Phylogeny and Zoogeography Biogeography: challenges to a biological synthesis	O304 Ecology Behavior & Chemical Ecology	S805 Pesticides, GM Crops, Resistance and Toxicology RNAi: Applications and considerations	S306 Insect Immunology, Physiology and Neurobiology The role of immunity in host-pathogen interactions	S201 Morphology and Ultrastructure Insect flight and migration: aerial performance in a changing world	S405 Development and Reproduction Evolution and development of integrated phenotypes	S510 Genetics, Genomics and Evolutionary Entomology Bioinformatics and the next-gen revolution
1230-1400	LUNCH									
1400-1530	S1404 Invasive Species and Quarantine Biological control: Benefit Sharing and the balance between benefits and risks	S1405 Invasive Species and Quarantine Recent issues on exotic insects travelling through the continents	S1705 Special Issues Women in Entomology—Challenges and Achievements in a New Era	S110 Systematics, Phylogeny and Zoogeography Biogeography: challenges to a biological synthesis	O106 Taxonomy Insect Taxonomy: Miscellaneous Orders	S308 Insect Immunology, Physiology and Neurobiology Neuron—doctrine system in control of physiology	S307 Insect Immunology, Physiology and Neurobiology Insect Cuticle	S201 Morphology and Ultrastructure Insect flight and migration: aerial performance in a changing world	O402 Medical Entomology Control of Medical Insects	S510 Genetics, Genomics and Evolutionary Entomology Bioinformatics and the next-gen revolution
1530-1800	COFFEE / TEA BREAK									
1800-1730	S1404 Invasive Species and Quarantine Biological control: Benefit Sharing and the balance between benefits and risks		S1706 Special Issues Women in Entomology—Challenges and Achievements in a New Era	S111 Systematics, Phylogeny and Zoogeography Biology of Chrysomelidae (17:45)	O106 Taxonomy Insect Taxonomy: Miscellaneous Orders	S308 Insect Immunology, Physiology and Neurobiology Neuron—doctrine system in control of physiology (18:00)	S307 Insect Immunology, Physiology and Neurobiology Insect Cuticle	O402 IPM Nuisance Chemistry (17:40)	O402 Medical Entomology Control of Medical Insects	S510 Genetics, Genomics and Evolutionary Entomology Bioinformatics and the next-gen revolution

* Organizer Mixer 18:00-20:00

* LOC & ICE Council Meeting 12:30-14:00

3F										5F
R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22
S1014 Integrated Pest Management Stink bugs: their expansion, pest status, and control tactics	S1306 Medical & Veterinary Entomology Insecticide resistance in medically important insects (mosquitoes, bed bugs, etc.)	S511 Genetics, Genomics and Evolutionary Entomology Advances in symbiosis	S516 IAEA Group Meeting	S512 Genetics, Genomics and Evolutionary Entomology Evolutionary genomics of social behavior	S605 Behavior and Chemical Ecology Chemically-mediated host plant selection, a complex and challenging topic	S1016 Integrated Pest Management Population genetics in the service of pest management	S1017 Integrated Pest Management Rice hoppers: Problems, surveillance, and management strategies	S1601 Social Insects Recent advances in biology of eusocial and subsocial insects	S1203 Urban, Stored Product and Post Harvest Entomology Pest ants of urban environments	S1107 Insect Biological Control Can we better select and manipulate biological control agents when we know their genomics?
S1014 Integrated Pest Management Stink bugs: their expansion, pest status, and control tactics	O305 Ecology, Genetics, Pollution, Symbiosis & Prey-predator interaction	S511 Genetics, Genomics and Evolutionary Entomology Advances in symbiosis	S516 IAEA Group Meeting	S512 Genetics, Genomics and Evolutionary Entomology Evolutionary genomics of social behavior (12-45)	S605 Behavior and Chemical Ecology Chemically-mediated host plant selection, a complex and challenging topic	S1016 Integrated Pest Management Population genetics in the service of pest management	S1017 Integrated Pest Management Rice hoppers: Problems, surveillance, and management strategies	S1601 Social Insects Recent advances in biology of eusocial and subsocial insects	S1203 Urban, Stored Product and Post Harvest Entomology Pest ants of urban environments	S1107 Insect Biological Control Can we better select and manipulate biological control agents when we know their genomics?
S1015 Integrated Pest Management The role of present and future genetically-engineered insect resistant crops in IPM	O305 Ecology, Genetics, Pollution, Symbiosis & Prey-predator interaction	S511 Genetics, Genomics and Evolutionary Entomology Advances in symbiosis	S516 IAEA Group Meeting	S1307 Medical & Veterinary Entomology Bartonella in arthropod vectors	S606 Behavior and Chemical Ecology Mechanisms of insect odorant detection	S1016 Integrated Pest Management Population genetics in the service of pest management	S1017 Integrated Pest Management Rice hoppers: Problems, surveillance, and management strategies	O204 Physiology Insect Reproduction	S1204 Urban, Stored Product and Post Harvest Entomology Novel approaches for urban pest management	S902 Conservation, Biodiversity and Climate Change Insect Biodiversity Conservation
S1015 Integrated Pest Management The role of present and future genetically-engineered insect resistant crops in IPM	O305 Ecology, Genetics, Pollution, Symbiosis & Prey-predator interaction	S511 Genetics, Genomics and Evolutionary Entomology Advances in symbiosis	S516 IAEA Group Meeting	S1307 Medical & Veterinary Entomology Bartonella in arthropod vectors	S606 Behavior and Chemical Ecology Mechanisms of insect odorant detection	S1016 Integrated Pest Management Population genetics in the service of pest management	S1017 Integrated Pest Management Rice hoppers: Problems, surveillance, and management strategies	O205 Physiology Insect Neurophysiology	S1204 Urban, Stored Product and Post Harvest Entomology Novel approaches for urban pest management	S902 Conservation, Biodiversity and Climate Change Insect Biodiversity Conservation

August 24 (Fri)

Room	B1									
	R1	R2	R3	R5	R6	R7	R8	R9	R10	R11
0800-0900	PLenary Session 5 (CONVENTION HALL B1)									
0900-1030	O306 Ecology Life history & Population	S805 Pesticides, GM Crops, Resistance and Toxicology Botanical Insecticides: Biological, biochemical and agricultural aspects	S407 Development and Reproduction Molecular aspects of insect reproduction	S115 Systematics, Phylogeny and Zoo- geography Origin and early splits of hexapods	S113 Systematics, Phylogeny and Zoo- geography Evolution of the Analesta and the rise of Eusociality	S309 Insect Immunology, Physiology and Neurobiology Insect sensory neurobiology	O603 Medical Entomology Physiology of Medical Insects	S202 Morphology and Ultrastructure Mechanisms of regulation of growth rate and size and shape in insects	S705 Insect related Interactions at a Multi-trophic Ecosystem Evolutionary ecology and biogeographical of gall-inducing arthropods and their associates	S513 Genetics, Genomics and Evolutionary Entomology Insects and biotelets
1030-1100	COFFEE / TEA BREAK									
1100-1230	O306 Ecology Life history & Population	S805 Pesticides, GM Crops, Resistance and Toxicology Botanical Insecticides: Biological, biochemical and agricultural aspects	S407 Development and Reproduction Molecular aspects of insect reproduction	S115 Systematics, Phylogeny and Zoo- geography Origin and early splits of hexapods	S113 Systematics, Phylogeny and Zoo- geography Evolution of the Analesta and the rise of Eusociality	S309 Insect Immunology, Physiology and Neurobiology Insect sensory neurobiology (12:45)	O603 Medical Entomology Physiology of Medical Insects	S202 Morphology and Ultrastructure Mechanisms of regulation of growth rate and size and shape in insects	S705 Insect related Interactions at a Multi-trophic Ecosystem Evolutionary ecology and biogeographical of gall-inducing arthropods and their associates	S513 Genetics, Genomics and Evolutionary Entomology Insects and biotelets
1230-1400	LUNCH									
1400-1530	O306 Ecology Life history & Population		S407 Development and Reproduction Molecular aspects of insect reproduction	S116 Systematics, Phylogeny and Zoo- geography Biological transitions in the Hymenoptera: a phylogenetic perspective	S114 Systematics, Phylogeny and Zoo- geography Phylogeny and evolution of the Coleoptera				S705 Insect related Interactions at a Multi-trophic Ecosystem Evolutionary ecology and biogeographical of gall-inducing arthropods and their associates	S514 Genetics, Genomics and Evolutionary Entomology Genomics and functional genomics of non-Drosophila Diptera insects
1530-1600	COFFEE / TEA BREAK									
1600-1730	O306 Ecology Life history & Population			S116 Systematics, Phylogeny and Zoo- geography Biological transitions in the Hymenoptera: a phylogenetic perspective	S114 Systematics, Phylogeny and Zoo- geography Phylogeny and evolution of the Coleoptera					S514 Genetics, Genomics and Evolutionary Entomology Genomics and functional genomics of non-Drosophila Diptera insects

3F

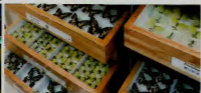
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R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22
S515 Genetics, Genomics and Evolutionary Entomology RNAi methods for controlling insects and their pathogens	S1308 Medical & Veterinary Entomology Malaria vector mosquitoes in Asia and Africa	S607 Behavior and Chemical Ecology Semiachemical application: from sex to alarm	S516 IAEA Group Meeting	S705 Insect related Interactions at a Multi-trophic Ecosystem Insects in forest litter and woody debris	S1018 Integrated Pest Management Management of migratory pests	Q206 Physiology Insect Physiology: Meta- morphosis, Hormone & Pheromone	S1019 Integrated Pest Management Ecological modeling for IPM	Q703 Entomology: General Entomology: General 3	S1205 Urban, Stored Product and Post Harvest Entomology Codonect management - Challenges and new innovations	O407 IPM Biological Control-Natural Enemy 2
S515 Genetics, Genomics and Evolutionary Entomology RNAi methods for controlling insects and their pathogens (13.00)	S1308 Medical & Veterinary Entomology Malaria vector mosquitoes in Asia and Africa	S1505 Acetology Ecology and behavior of soil-inhabiting mites (12.45)	S516 IAEA Group Meeting	S706 Insect related Interactions at a Multi-trophic Ecosystem Insects in forest litter and woody debris	S1018 Integrated Pest Management Management of migratory pests	Q206 Physiology Insect Physiology: Meta- morphosis, Hormone & Pheromone	S1019 Integrated Pest Management Ecological modeling for IPM	Q703 Entomology: General Entomology: General 3		O407 IPM Biological Control-Natural Enemy 2
	S1308 Medical & Veterinary Entomology Malaria vector mosquitoes in Asia and Africa	S1506 Acetology Agricultural Ecology - invasion and expansion	S516 IAEA Group Meeting	S903 Conservation, Biodiversity and Climate Change Insect biodiversity in the changing world	S1018 Integrated Pest Management Management of migratory pests	Q206 Physiology Insect Physiology: Meta- morphosis, Hormone & Pheromone	S608 Behavior and Chemical Ecology Biotically- derived bioactive compounds: insecticides, repellents, attractants and antifeedants		S1206 Urban, Stored Product and Post Harvest Entomology Bed bug resurgence and management - a global perspective	S1108 Insect Biological Control Biodiversity and biological control
	S1607 Acetology Internal morphology and ultrastructure of mites	S1506 Acetology Agricultural Ecology - invasion and expansion	S516 IAEA Group Meeting	S903 Conservation, Biodiversity and Climate Change Insect biodiversity in the changing world (18.00)			S608 Behavior and Chemical Ecology Biotically- derived bioactive compounds: insecticides, repellents, attractants and antifeedants		S1206 Urban, Stored Product and Post Harvest Entomology Bed bug resurgence and management - a global perspective	S1108 Insect Biological Control Biodiversity and biological control



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Hub of Conserving North-East Asian Biodiversity



- **Mission** To better preserve and wisely use biological resources by expanding our knowledge of indigenous species
- **Vision** To become a leading biological research institute contributing to green growth and biodiversity conservation

- ✓ NIBR is at the center of research and conservation of biodiversity, discovering native species inhabiting the Korean peninsula and securing national sovereignty over them.
- ✓ NIBR is at the hub of discovering and accumulating useful genetic resources and natural substances to promote and support biological industry based on biotechnology.
- ✓ NIBR is at the heart of biodiversity education and exhibition of Korean native species, sharpening awareness on the values of biological resources and the importance of biodiversity conservation.
- ✓ NIBR is at the forefront of global competition to secure useful biological genetic resources by diversifying its environmental diplomacy.



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XXIV
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Symposium

Symposium

Section 1 Systematics, Phylogeny and Zoogeography

Conveners: Ho-Yeon Han (Republic of Korea), John Heraty (U.S.A.)

S 101

Globalized insect taxonomy in the 21st century:

Current accomplishments, future prospects

Symposium Organizers: Matthew Buffington (U.S.A.), John LaSalle (Australia), Shaun Winterton (U.S.A.)

Room 9

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S101M01	Changing the way we describe biodiversity <i>Andrew R. Deans, Matthew J. Yoder, James P. Balhoff, Matthew A. Berto, Istvan Mikó, Katja C. Selmann, Matthew A. Bertone</i>	09:00-09:30
S101M02	vSysLab: A platform for development of monographs for the digital future of taxonomy <i>Norman F. Johnson</i>	09:30-09:45
S101M03	Cybertaxonomy of species rich clades using character matrices as data repositories and natural language parsing for rapid publication of species descriptions <i>Shaun Winterton</i>	09:45-10:00
S101M04	Scratchpad virtual research environments: Making your data work for you <i>Vincent Stuart Smith, Simon Rycroft, Irma Brake, Ed Baker, Ben Scott, Laurence Livermore, Dave Roberts</i>	10:00-10:15
S101M05	Species file software: Its past, present and the future <i>Ralph Edward DeWalt, David C. Eades, Matthew Yoder</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S101M06	An integration of cryobanking and web-based image recognition systems for systematic studies and curation <i>Jen-Min Tsai, Wen-Bin Yeh, Yaw-Syan Fu, Mei-Ling Chan, Man-Miao Yang</i>	11:00-11:15
S101M07	Global genome initiative: Building a synoptic collection of earth's genomic resources <i>Sean Gary Brady</i>	11:15-11:30
S101M08	PBI and beyond databasing and the heteropteran community <i>Christiane Weirauch, Randall T. Schuh</i>	11:30-11:45
S101M09	From field to screen and beyond: New methods for the collection, curation and illustration of parasitic Hymenoptera (Insecta) <i>Matthew Buffington, Michael Gates</i>	11:45-12:00
S101M10	Remote microscopy: A success story in Australian and New Zealand plant biosecurity <i>Michael Thompson</i>	12:00-12:15
Lunch		12:30-14:00

S 102

Systematics, biogeography and ecology of Cerambycidae and Buprestidae

Symposium Organizers: Qiao Wang (New Zealand), Steve Lingafelter (U.S.A.)

Room 6

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S102M01	Making scents of it all: Volatile pheromones of the Cerambycidae <i>Ann Marie Ray, Jon Swift, Lawrence M. Hanks, Jocelyn G. Millar</i>	09:00-09:15
S102M02	Observational notes on the endophallus of Cerambycidae: Comparing everted and non-everted conditions <i>Junsuke Yamasaki, Nobuo Obayashi</i>	09:15-09:30
S102M03	Cerambycidae of Bolivia (Coleoptera: Cerambycidae) <i>Steven Wayne Lingafelter, James E. Wappes</i>	09:30-09:45
S102M04	Preliminary findings into the morphology and systematics of Onciderini (Cerambycidae: Lamiinae) <i>Eugenio H. Neorns, Kelly B. Miller</i>	09:45-10:00

Code No.	Presentation Title Authors_Presenting author	Time
S102M05	Cerambycidae of North Vietnam <i>Eduard Vives, Steven Wayne Lingafelter, Pham Hong Thu</i>	10:00-10:15
S102M06	The longhorned beetles of the Itatiaia National Park, Rio de Janeiro State, Brazil <i>Marcelo Laura Manne, Miguel Angel Morone</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S102M07	Cerambycidae of Brazilian tropical savanna: Diversity and endemism <i>Marcelo Laura Manne Freire, Vanessa Souza Machado, Juan Pablo Botero</i>	11:00-11:15
S102M08	Phylogeny of the invasive <i>Agrilus planipennis</i> Fairmaire (emerald ash borer - EAB) and its relatives (Coleoptera: Buprestidae) <i>Maria Lourdes Chamorro, Eduard Jendek</i>	11:15-11:30
S102M09	Diversity of the buprestid beetles of the Korean peninsula (Coleoptera: Buprestidae) <i>Jun-Gu Lee</i>	11:30-11:45
S102M10	Pseudocryptic speciation of <i>Chrysochroa fulgidissima</i> (Coleoptera: Buprestidae) with two new species from Korea, China and Vietnam <i>Tae Man Han, Tae Hwa Kang, Jongcheol Jeong, Young Bo Lee, Hye Jung Chung, Sangwook Park, Seunghwan Lee, Ki Gyoung Kim, Hae-Chul Park</i>	11:45-12:00
Lunch		12:30-14:00

S 103

Marine Insects: Systematics, ecology, phylogeny and zoogeography
Symposium Organizers: Kee-Jeong Ahn (Republic of Korea), Lanna Cheng (U.S.A.)

Room 6

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S103M01	Marine Entomology - Then and Now <i>Lanna Cheng</i>	14:00-14:15
S103M02	Distribution of the ocean-skater <i>Halobates sericeus</i> and paleo-oceanography <i>Sarah Sin Tang Lee, Lanna Cheng, Felix Sperling</i>	14:15-14:30
S103M03	Temperature tolerance of oceanic sea skaters, <i>Halobates</i> (Heteroptera: Gerridae), and ocean dynamics <i>Tetsuo Harada, Shiro Takenaka, Takera Sekimoto, Yuki Osumi, Takao Inoue, Mitsuru Nakajima, Chihito Katagiri</i>	14:30-14:45
S103M04	Ecology of three endangered sea skaters (Heteroptera: Gerridae) in Japan <i>Terumi Ikawa, Yuichi Naoe, Sugihiko Hoshizaki, Hirotaka Okabe</i>	14:45-15:00
S103M05	Ecology, distribution and molecular phylogeny of the marine midge <i>Pantomyia</i> (Diptera: Chironomidae) <i>Danwei Huang, Lanna Cheng</i>	15:00-15:15
S103M06	Live with the rhythm of the tides: Evolution of local adaptations in adult emergence time of the marine midge <i>Chunio marinus</i> (Diptera: Chironomidae) <i>Tobias S. Kötter</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S103M07	A marine insect that counts - Mechanism of Circa-semilunar emergence rhythm of <i>Pantomyia oceanica</i> (Diptera: Chironomidae) <i>Keryea Soong, In-Haw Chang</i>	16:00-16:15
S103M08	Zoogeography of coastal marine Staphylinidae (Coleoptera) <i>J. Howard Frank, Kee-Jeong Ahn</i>	16:15-16:30
S103M09	Phylogeny of the marine littoral genus <i>Coffus</i> (Coleoptera: Staphylinidae) <i>Mi-Jeong Jeon, Kee-Jeong Ahn</i>	16:30-16:45
S103M10	Molecular phylogeny and coastal habitat evolution of the genus <i>Aleochara</i> (Coleoptera: Staphylinidae) <i>Jeong-Hun Song, Kee-Jeong Ahn</i>	16:45-17:00
S103M11	Histeridae, Salpingidae and Hydrophilidae (Coleoptera) on seashore of Japan <i>Masahiro Ohara, Nana Kobayashi</i>	17:00-17:15
S103M12	Concluding remarks <i>Kee-Jeong Ahn</i>	17:15-17:30

Room 5

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S104M01	Elucidating Lepidoptera evolution: A tale of two approaches <i>Niels Peder Kristensen</i>	09:00-09:30
S104M02	From soil to tree: the ground plan of the lepidopteran larval trunk, and notable early deviations <i>Steen Thorleif Dupont</i>	09:30-09:45
S104M03	More genes, more taxa, more questions? Inching towards a molecular phylogeny of Lepidoptera <i>Andreas Zwick, The LepTree Consortium (www.leptree.net)</i>	09:45-10:00
S104M04	On the phylogenetic affinities of some enigmatic Lepidoptera <i>Marko Mutanen, Maria Heikkilä, Lauri Kaila</i>	10:00-10:15
S104M05	Getting a sense of time for massive radiations in Lepidoptera <i>Niklas Wahlberg</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S104M06	Progress toward fossil and molecular dating for the Lepidoptera Tree of Life <i>Jae-Cheon Sohn, Donald Davis, Charles Mitter, Jerome Regier, Michael Cummings</i>	11:00-11:15
S104M07	Hepialoidea revisited in the light of the discovery of a new higher-level taxon <i>Thomas Johannes Simonsen, Niels Peder Kristensen</i>	11:15-11:30
S104M08	Phylogeny of the lower Heteroneura: A bunch of tiny leafminers, gallers and flower feeders <i>Erik J. Van Nieukerken, Donald R. Davis, The LepTree Consortium, Douglas Hilton</i>	11:30-11:45
S104M09	Acanthopteroctetidae and their importance for understanding the early evolutionary history of Lepidoptera <i>Jadranka Rota</i>	11:45-12:00
S104M10	20 million years of evolution in Hawaii's most diverse genus, <i>Hypsimocoma</i> (Cosmopterididae) <i>Daniel Rubinoff</i>	12:00-12:15
S104M11	Phylogenetic relationships of Gelechiidae (Lepidoptera) <i>Sangmi Lee</i>	12:15-12:30
Lunch		12:30-14:00
S104M12	Phylogenetic relationships of Tortricidae - the scene from root to fruit <i>Richard Lee Brown, Joaquin Baixeras, Sangmi Lee</i>	14:00-14:15
S104M13	Non-synonymous changes and increased gene sampling improves phylogenetic estimates for higher-level groups within leaf-mining moths and relatives (Lepidoptera: Gracillariidae) <i>Akito Yuki Kawahara, Issai Ohshima, Atsushi Kawakita, Jerome Regier, Charles Mitter, Michael Cummings, Donald Davis, David Wagner, Jurate De Prins, Carlos Lopez-Vaamonde</i>	14:15-14:30
S104M14	The evolutionary signal obtained from Afrotropical taxa might significantly change our traditional understanding of the global diversity pattern and phylogeny of Lepidoptera <i>Jurate De Prins</i>	14:30-14:45
S104M15	Evolution of pollination behavior and mutualism in <i>Epicephala</i> (Gracillariidae) <i>Atsushi Kawakita</i>	14:45-15:00
S104M16	The genetics of host shifting in a leaf-mining moth <i>Acrocercops transecta</i> (Gracillariidae) <i>Issai Ohshima</i>	15:00-15:15
S104M17	Ever since Yrki: A molecular phylogeny for Yponomeutoidea (Lepidoptera, Ditrysia) with new insights into their evolutionary history <i>Jae-Cheon Sohn, Donald Davis, Jerome Regier, Charles Mitter, Jean-François Landry, Andreas Zwick, Michael Cummings</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S104M18	A preliminary phylogenetic framework of Chalcosiinae (Lepidoptera: Zygaenoidea, Zygaenidae) and the evolution of chemical defense and mimicry <i>Shen-Hann Yen, Chio-Hsuan Wili</i>	16:00-16:15

Code No.	Presentation Title Authors, Presenting author	Time
S104M19	A molecular phylogeny for the pyraloid moths (Lepidoptera: Pyraloidea) and its implications for higher-level classification <i>Jerome C. Regier, Charles Mitter, Maria Alma Solis, James E. Hayden, Bernard Landry, Matthias Nuss, Thomas Johannes Simonsen, Sheen-Horn Yen, Andreas Zwick, Michael R. Cummings</i>	16:15-16:30
S104M20	Phylogenetic and comparative studies of tiger moths (Lepidoptera: Erebidiae) <i>Jennifer M. Zaspel, Taylor Ward, Stacey Coy, Kendra Casanova, Susan Weiler</i>	16:30-16:45
S104M21	Repeated evolution of early and late winter geometrid moths <i>Satoshi Yamamoto, Eugene A. Benjaev, Teiji Sato</i>	16:45-17:00
S104M22	Biogeography of the Pedalioline complex: Are Pedaliodes complex genera consequence of horizontal or vertical events of reproductive isolation? <i>Giovanny Fagua, Monica Higuera, Luz Angela Galindo-Leva</i>	17:00-17:15
S104M23	Molecular systematics of the butterfly tribe Preponini (Nymphalidae: Charaxinae) <i>Elena Ortiz-Acevedo, Keith R. Willmott</i>	17:15-17:30

S 105

Dates and rates: Diversification and dating methods and their applications to entomology

Symposium Organizers : Sean Brady(U.S.A.), Jessica L. Ware(U.S.A.)

Room 5

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S105TU01	Timing the diversification of beetles (Coleoptera) <i>Duane D. McKenna, Alex Wild, Kojun Kanda, David Maddison, Brian D. Farrell</i>	09:00-09:30
S105TU02	Evolution of cleptoparasitic strategy in the bee family Megachilidae <i>Jessica R. Litman, Terry L. Griswold, Bryan N. Danforth</i>	09:30-10:00
S105TU03	Divergence time estimates for therevoid flies (Diptera: Asiloidea) <i>Shaun Winterton, Jessica Ware</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S105TU04	300 millions of evolution: Divergence dating in Orthoptera (Arthropoda: Insecta) <i>Hojun Song</i>	11:00-11:30
S105TU05	Evolutionary insights from divergence dating studies on Hymenoptera <i>Sean Gary Brady</i>	11:30-12:00
	Lunch	12:30-14:00

S 106

Phylogeny and evolution of the Paraneoptera

Symposium Organizers : Christiane Weirauch(U.S.A.), Jason Cryan(U.S.A.), Kevin Johnson(U.S.A.)

Room 9

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S106TU01	Wing base morphology and phylogeny of Paraneoptera <i>Kazunori Yoshizawa</i>	09:00-09:15
S106TU02	Mitochondrial genomics of Paraneoptera <i>Stephen L. Cameron</i>	09:15-09:30
S106TU03	A timescale for the evolution of lice <i>Vincent Stuart Smith, Kevin P. Johnson, Kazunori Yoshizawa, Jessica E. Light</i>	09:30-09:45
S106TU04	Phylogenomics of lice using next-generation sequencing <i>Kevin Paul Johnson, Kimberly Walden, Hugh Robertson</i>	09:45-10:00
S106TU05	Thripin' Awesome: Phylogeny and mitochondrial genomics of Thysanoptera <i>Rebecca Buckman, Laurence Mound, Michael Whiting</i>	10:00-10:15
S106TU06	Phylogeny and evolution of Aphidini (Sternorrhyncha) <i>Hyjoang Kim, Seunghwan Lee</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S106TU07	Paraneoptera: Traits and evolution of wing venation pattern <i>Andre Nel, Jakub Prokáp, Patricia Nel, Philippe Grandcolas, Di-ying Huang, Jacek Szewda</i>	11:00-11:15
S106TU08	Phylogeny of Hemiptera based on the sequences of mitochondrial genomes <i>Wenjun Bu</i>	11:15-11:30
S106TU09	Phylogeny of Heteroptera - combined morphological and molecular perspective <i>Christiane Weirauch, Randall T. Schuh, Ward C. Wheeler</i>	11:30-11:45
S106TU10	Evolution of traumatic insemination in cimicoid true bugs <i>Sunghoon Jung, Ondrej Balvin, Kazutaka Yamada, Seunghwan Lee</i>	11:45-12:00
S106TU11	Vertical transmission and cospeciation of gut symbionts in heteropteran stinkbugs <i>Takahiro Hasekawa, Yoshitomo Kikuchi, Nahomi Kaiwa, Tokeura Fukatsu</i>	12:00-12:15
Lunch		12:30-14:00

S 107

Phylogeny and evolution of the Diptera

Symposium Organizers : Brian Wiegmann(U.S.A.), David Yeates(Australia)

Room 5

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S107TU01	The Flytree of life: Resolution and radiation of higher-level fly phylogeny <i>Brian M. Wiegmann</i>	14:00-14:30
S107TU02	The Flytree morphology: A new phylogenetic estimate from exemplar-based analysis across the order <i>David Yeates</i>	14:30-14:45
S107TU03	Reciprocal illumination between morphology and molecules in basal Diptera phylogeny <i>Dalton de Souza Amorim</i>	14:45-15:00
S107TU04	Molecular phylogeny of dark-winged fungus gnats (Diptera: Sciaroidea: Sciaridae) and the evolution of larval feeding habits <i>Seungwan Shin, Sunghoon Jung, Frank Menzel, Kai Heller, Heungsik Lee, Seunghwan Lee</i>	15:00-15:15
S107TU05	Phylogeny and biodiversity of therevid flies (Diptera: Asiloidea) <i>Shaun Winterton</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00

Code No.	Presentation Title Authors, Presenting author	Time
S107TU06	Higher flies fly high - mitogenomics of Schizophora through next generation sequencing <i>Ana Carolina M. Jamuelra, Damien F. Paulin, Aakrasi Ratan, Lynn P. Tomsha, Stephan C. Schuster, Ana Maria L. Azeredo-Espin</i>	16:00-16:15
S107TU07	Outgroup relationships, basal phylogeny and classification of the family Tephritidae <i>Ho-Yeon Han, Kyung-Eui Ro</i>	16:15-16:30
S107TU08	The trouble with rapidly diversifying Neotropical lineages: Can the current Pipunculidae classification be incorporated into new phylogenetic hypotheses? <i>Jeffrey H. Skevington, Christian Kehmaier, Marc De Meyer, Jose A. Rafael, Scott Kelso</i>	16:30-16:45
S107TU09	Explosive radiation of parasitoid flies: Phylogeny and evolution of Tachinidae <i>John O. Stireman, Pierluippo Cerretti, Dan J. Davis</i>	16:45-17:00
S107TU10	Mining Genbank to resolve Orthorrhapha: A supermatrix analysis of lower Brachycera <i>Michelle Trautwein, Keith Bayless, Shuan Winterton, Torsten Dikow, Brian Wiegmann, David Yeates</i>	17:00-17:15

S 108

Phylogenomics and the evolution of insects

Symposium Organizers : Brian Wiegmann(U.S.A.)

Room 5

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S108W01	Phylogenomic distribution and functions of DNA methylation in insect genomes <i>Soojin Yi</i>	09:00-09:30
S108W02	Phylogenomics and the evolution of insects ? The iKITE project <i>Bernhard Misof</i>	09:30-10:00
S108W03	Phylogenomic insights into the Cambrian explosion, the colonization of land and the evolution of flight in Arthropoda <i>Chris Wheat, Niklas Wahlberg</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S108W04	Whole genomes help resolve the subordinal phylogeny of beetles <i>Duane D. McKenna</i>	11:00-11:30
S108W05	Resolving rapid radiations within Diptera: A phylogenomic approach <i>Michelle Trautwein, Brian Wiegmann</i>	11:30-12:00
	Lunch	12:30-14:00

S 109

From fossils to molecules: Evolution of the stick and leaf Insects

Symposium Organizers : Sven Bradler(Germany), Thomas Buckley(New Zealand)

Room 6

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S109W01	The phasmatodean tree of life: Progress and enigmas <i>Sven Bradler, Thomas R. Buckley</i>	09:00-09:30
S109W02	Paleobiology of fossil stick- and leaf-Insects <i>Sanja Wedmann, Sven Bradler</i>	09:30-09:45
S109W03	Homologies in stick-insect wing venation and taxonomic implications <i>Olivier Bethoux</i>	09:45-10:00
S109W04	Flight in stick insects: Biomechanics and implications for ecology and evolution <i>Yu Zeng, Robert Dudley</i>	10:00-10:15
S109W05	Evolution and systematic position of Phasmatodea - A morphological approach <i>Benjamin Wipfler, Rolf G. Beutel</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00

Code No.	Presentation Title Authors, Presenting author	Time
S109W06	New insights into the evolution of sperm structure in stick and leaf insects <i>Marco Gottardo, Romano Dalai</i>	11:00-11:15
S109W07	Affinity of Phasmatodea: Embryological evidence <i>Toshiki Uchifune, Yoshie Uchifune, Yuta Mashima, Ryuchiro Mochida</i>	11:15-11:30
S109W08	Molecular phylogeny of stick insects based on mitochondrial genome <i>Natuo Kamoto, Kenji Yukuhira, Shuichiro Tamoto</i>	11:30-11:45
S109W09	Phylogeny and genome evolution in the New Zealand stick insects (Phasmatodea) <i>Thomas Buckley, Luke Dunning, Alice Dennis, Shelley Susan Myers, Geoffrey Thomson, Sven Bradler</i>	11:45-12:00
S109W10	How clasper morphology relates to genetic and behavioural isolation in the New Zealand stick insect genus <i>Clitarchus</i> <i>Shelley Susan Myers, Alice Dennis, Gregory L. Holwell, Thomas R. Buckley</i>	12:00-12:15
S109W11	The stick insects of Madagascar: Ancient lineages or recent adaptive radiation? <i>Julia Goldberg, Sven Bradler</i>	12:15-12:30

S 110

Biogeography: Challenges to a biological synthesis

Symposium Organizers : Kipling Will(U.S.A.), Eduardo A. B. Almeida(Brazil),
Jong Kyun Park(Republic of Korea)

Room 5

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S110TH01	Bio(phylo)geo(eco)graphy: The multidisciplinary nature of plant and animal geography <i>Malte Ebach</i>	09:00-09:30
S110TH02	Biogeographical units: Kinds of boundaries or individual wholes? <i>Eduardo A.B. Almeida, Renato S. Capellari, Silvio S. Ntpe</i>	09:30-09:45
S110TH03	Many Oriental regions <i>Dalton de Souza Amaral</i>	09:45-10:00
S110TH04	The wings of butterflies: Active dispersal through time or passive movements? <i>Mikko Niklas Wahlberg</i>	10:00-10:15
S110TH05	The fossils within: Use of nuclear mitochondrial pseudogenes to understand historical biogeography <i>Hajun Song</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S110TH06	The interface of biogeography and phylogeography in dune restricted insects in North America <i>Matthew H. Van Dam</i>	11:00-11:15
S110TH07	A History of Bioregionalisation in Australia <i>Malte C. Ebach</i>	11:15-11:30
S110TH08	Global biogeographic patterns of grassland Auchenorrhyncha <i>Therese Anne Catonach, Chris H. Dietrich</i>	11:30-11:45
S110TH09	Historical biogeography of Australian true bugs <i>Gerasimos Cassis</i>	11:45-12:00
S110TH10	Austral biogeography: Goodbye Gondwana and the Moa buoyancy hypothesis <i>David Yeates</i>	12:00-12:15
S110TH11	Local variation, species, and biogeography of New Zealand beetles <i>Richard Leschen, Thomas Buckley, Katie Marske, Nathan Lard</i>	12:15-12:30
Lunch		12:30-14:00

Code No.	Presentation Title Authors Presenting author	Time
S110TH12	Evolutionary and biogeographic patterns in African and Madagascan dung beetles (Scarabaeidae: Scarabaeinae) Catherine Lynne Sole, Clarke Henry Scholtz	14:00-14:15
S110TH13	Morphology and biogeographic patterns of ground beetles in Far East countries (Coleoptera, Carabidae, Pterostichinae) Jong Kyun Park	14:15-14:30
S110TH14	Large-scale biogeography of Carabid beetles using phylobetadiversity methods Kipling Will	14:30-14:45
S110TH15	Biogeographic patterns of Pacific Orthotylinae Michael Peter Elias	14:45-15:00

S 111**Biology of Chrysomelidae**

Symposium Organizers : Michael Schmitt(Germany), Jong Eun Lee(Republic of Korea)

Room 5

August 23, Thursday

Code No.	Presentation Title Authors Presenting author	Time
	Welcoming Remarks Michael Schmitt	16:00-16:15
S111TH01	Alticinae (Coleoptera: Chrysomelidae) Diversity in Oaxaca, Mexico: A Preliminary Study David George Farth	16:15-16:30
S111TH02	Phylogeny and evolution of Chrysomeloidea(leaf beetles and long-horned beetles) Duane D. McKenna, Brian D. Farrell	16:30-16:45
S111TH03	Secondary sexual characters in the Diabroticites (Chrysomelidae, Galerucinae) Laura Rocha Prado	16:45-17:00
S111TH04	Notes on the ecology of rolled leaf hispines (Chrysomelidae: Hispinae) at La Gamba (Costa Rica) Michael Schmitt	17:00-17:15
S111TH05	Biology of <i>Caryedon prasopidis</i> Arora (Coleopteran: Bruchidae) on acacia Arabica (Lam.) willd. - A new host record Desh Raj Thakur	17:15-17:30
S111TH06	Discerning pattern in the connection of Cassidinae (Coleoptera, Chrysomelidae) and host plants Donald Windsor	17:30-17:45

S 112**Aphid systematic and evolution:****Systematic, ecology, phylogeny and zoogeography**

Symposium Organizers : Seunghwan Lee(Republic of Korea), Robert Footitt(Canada)

Room 2

August 22, Wednesday

Code No.	Presentation Title Authors Presenting author	Time
S112W01	Evolutionary history of gall-forming aphids of the tribe Eriosomatini (Aphididae: Eriosomatinae) Masakazu Sano, Shiro-ichi Akimoto	09:00-09:30
S112W02	Patterns of diversification of the conifer feeding-aphid genus <i>Cinara</i> (Lachnidae): Biogeographical history and evolution of host plant association Emmanuelle Jousaën, Armelle Corot d'acier	09:30-10:00
S112W03	Population genetic structure of the cotton-melon aphid, <i>Aphis gossypii</i> Glover, in primary and secondary hosts Hyojoang Kim, Yeim Lee, Seunghwan Lee	10:00-10:30
	Coffee/Tea Break	10:30-11:00

Code No.	Presentation Title Authors, Presenting author	Time
S112W04	Review COI sequences of the Aphididae, and the necessity of developing new molecular markers for aphid species identification <i>Wonhoan Lee, Robert G. Foottit, Seunghwan Lee</i>	11:00-11:30
S112W05	Reconstruction of subtribal concept in the tribe Macrosiphini (Hemiptera: Aphididae) based on molecular data <i>Hwalran Choi, Seungwan Shin, Seunghwan Lee</i>	11:30-11:45
S112W06	Phylogeography, life cycle evolution and differentiation of sibling species in the leaf-curling plum aphid, <i>Brachycaudus helichrysi</i> (Hemiptera: Aphididae) <i>Josephine Piffaretti, Flavie Vanlerberghe-Masutti, Emmanuelle Jousset</i>	11:45-12:00
S112W07	Evolution of asexuality in the pea aphid, <i>Acyrtosiphum pisum</i> <i>Takashi Kanbe, Shin-ichi Akimoto</i>	12:00-12:15
S112W08	Host-associated differentiation among host-sharing aphids in the gossypii group <i>Yerlm Lee, Seunghwan Lee, Hyejoang Kim</i>	12:15-12:30
Lunch		12:30-14:00

S 113

Evolution of the Aculeata and the rise of eusociality

Symposium Organizers : Michael Schwarz (Australia), Jason Gibbs (U.S.A.),
Miriam Richards (Canada)

Room 6

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S113F01	Phylogenetic perspectives on social evolution and co-evolution in ants <i>Sean Gary Brady</i>	09:00-09:30
S113F02	Phylogeny and social evolution of the Halictidae <i>Jason Gibbs, Sean Brady, Kajun Kanda, Bryan N. Danforth</i>	09:30-09:45
S113F03	Phylogeny and macroevolution of colletid bees (Hymenoptera: Colletidae) <i>Eduardo A.B. Almeida, Marcelo R. Piz, Sean Gary Brady, Bryan N. Danforth</i>	09:45-10:00
S113F04	Recurrent evolution of dependent colony foundation in the aculeata <i>Adam L. Cronin</i>	10:00-10:15
S113F05	Radiation of the allodapine bees since the Eocene <i>Luke B. Chenoweth, Michael Philip Schwarz</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S113F06	Radiation of bees in the South West Pacific - Dispersals and rapid radiations <i>Scott V.C. Groom, Mark I. Stevens, Michael P. Schwarz</i>	11:00-11:15
S113F07	Phylogenetic perspective of a nocturnal niche invasion <i>Simon M. Tierney</i>	11:15-11:30
S113F08	Evolution of sociality in the apoid wasp <i>Microstigmus nigrophthalmus</i> <i>Eric R. Lucas, Rogerio P. Martins, Lorenzo R.S. Zanatta, Jeremy Field</i>	11:30-11:45
S113F09	Antiquity and evolutionary history of sociality in carpenter bees <i>Sandra Rehan</i>	11:45-12:00
Lunch		12:30-14:00

S 114

Phylogeny and evolution of the Coleoptera
Symposium Organizers: Kojun Kanda (U.S.A.)

Room 6

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S114F01	Adephagan phylogeny based on sequence data from the 8ToL project <i>David Maddison, Kojun Kanda, Kipling Will</i>	14:00-14:15
S114F02	Evolutionary patterns of hind wing morphology in scarabs (Coleoptera: Scarabaeoidea) based on the extant and extinct evidences <i>Ming Bai, Junzhi Cui, Xingke Yang</i>	14:15-14:30
S114F03	Phylogenetic relationships of Cleroidea <i>Richard Leschen, John Lawrence, Adam Szpinski, Matthew Gimnel</i>	14:30-14:45
S114F04	The Phylogeny of Tenebrionoidea (Cucujiformia) inferred from molecular data <i>Kojun Kanda, Alexander Wild, Duane McKenna, David Maddison</i>	14:45-15:00
S114F05	Phylogenetics of weevils (superfamily Curculionoidea) <i>Adriana Elena Marvaldi, Duane McKenna, Brian Farrell</i>	15:00-15:15
S114F06	Nomenclature of family-group and genus-group names in Coleoptera <i>Pat Bouchard, Miguel A. Alonso-Zarazaga</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S114F07	Reconstructing the Beetle Tree of Life <i>Duane D. McKenna, Alex Wild, Kojun Kanda, David Maddison, Brian D. Farrell</i>	16:00-16:30
S114F08	A summary tree of Coleoptera from available molecular data <i>Alfried P. Vogler, Chris Barton, Douglas Chesters, Ladislav Bocak, Alexandra Crampton-Platt, Sujatha N. Kutty, Dirk Ahrens</i>	16:30-17:00

S 115

Origin and early splits of hexapods

Symposium Organizers: Günther Pass (Austria), Bernhard Misof (Germany), Ryuichiro Machida (Japan)

Room 5

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S115F01	Origin of views on origins of hexapods <i>Niels Peder Kristensen</i>	09:00-09:15
S115F02	How did the first hexapod look like: Status quo and problems in reconstructing the ground pattern of Hexapoda <i>Nikolaus Urban Szucsich</i>	09:15-09:30
S115F03	Exploring morphological variation in apterygotes: Consequences of taxon sampling on ancestral character state reconstructions <i>Markus Koch</i>	09:30-09:45
S115F04	Early splitting of Hexapoda reviewed from the comparative embryology <i>Ryuichiro Machida</i>	09:45-10:00
S115F05	Entognath formations of three entognathan constituents, Protura, Collembola and Diplura <i>Shigekazu Tomizuka, Kaeiro Sekiya, Makiko Fukui, Ryuichiro Machida</i>	10:00-10:15
S115F06	Unravelling Collembola phylogeny <i>Cyrille A. D'Haese</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S115F07	The molecular evolution of basal hexapods <i>Yun-Kia Luan, Wan-Jun Chen, Yi-Nan Hou, Yun-Bu, Yan Gao, Wen-Ying Yin</i>	11:00-11:15
S115F08	Phylogenetic analysis based on three nuclear DNA-encoded protein sequences confirms the monophyly of Hexapoda, but does not support the monophyly of Entognatha <i>Zhi-Hui Su, Go Sasaki, Kelsuke Ishiwata</i>	11:15-11:30
S115F09	Basal hexapod relationships based on phylogenomic data: Progress, challenges and pitfalls <i>Karen Meusemann, Bernhard Misof</i>	11:30-11:45
S115F10	Can we ever hope for a robust backbone tree of hexapods? <i>Bernhard Misof, Karen Meusemann</i>	11:45-12:00

Code No.	Presentation Title Authors, Presenting author	Time
S115F11	Early splits of Pterygota: Inputs and shortcomings of the fossil record <i>Olivier Bethoux</i>	12:00-12:15
S115F12	Resolving the phylogeny of non-endopterygote Hexapoda <i>Andreas Zwick, Hong Zhao, Jerome C. Regier</i>	12:15-12:30
Lunch		12:30-14:00

S 116

Biological transitions in the Hymenoptera: A phylogenetic perspective
 Symposium Organizers : Andy Austin(Australia), John Heraty(U.S.A.)

Room 5

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
	Biological transitions in the Hymenoptera – Introductory remarks <i>Andrew D. Austin</i>	14:00-14:05
S116F01	Phylogenetic relationships among superfamilies of Hymenoptera <i>Michael Sharkey, James Carpenter, Lars Vilhelmsen, John Heraty, Victoria Pook</i>	14:05-14:20
S116F02	Phylogeny of the Chalcidoidea: Latest results and implications <i>John Heraty</i>	14:20-14:35
S116F03	Phylogeny of the Aculeata (Hymenoptera): Results of the Hymenoptera Taxonomic Working Group <i>Denis John Brothers, James M. Carpenter, Susanne Scholmeister, Donat Agosti, Celso O. Azevedo, Craig M. Brabant, Jacques Dubois, Lynn S. Kimsey, Volker Lohmann, Michael OH, Laurence Paclier</i>	14:35-14:50
S116F04	Evolution of the hymenopteran ovipositor system: Implications for host exploitation <i>Donald L.J. Quicke</i>	14:50-15:05
S116F05	Evolution of endoparasitism-strategies for dealing with the host milieu <i>Michael R. Strand</i>	15:05-15:20
Coffee/Tea Break		15:30-16:00
S116F06	Host switching as biological transitions among parasitoids - exploiting spiders as a resource <i>Andrew D. Austin</i>	16:00-16:15
S116F07	Evolution of sex determination and endosymbionts in the Hymenoptera <i>Leo W. Beukeboom, Elzmiel Geuverink, Wen-Juan Mo, Louis van de Zande</i>	16:15-16:30
S116F08	Defensive mutualisms and diffuse host-symbiont co-evolution in Hymenoptera <i>Martin Kaltenpoth, Tobias Engl</i>	16:30-16:45
S116F09	Tracing the rise of ants <i>Andrea Lucky, Michelle Trautwein, Benoit Guenard, Michael Weiser, Robert Dunn</i>	16:45-17:00
S116F10	Uncovering the evolutionary history of a unique family of ant parasitoids (Eucharitidae: Hymenoptera) <i>Elizabeth Murray, John Heraty</i>	17:00-17:15
S116F11	Morphology and phylogeny of the enigmatic wasp genus <i>Cales</i> (Chalcidoidea: Calesinae) <i>Jason Mottern, John Heraty</i>	17:15-17:30

Section 2 Morphology and Ultrastructure

Conveners: R.A. Steinbrecht(Germany), Myungjin Moon(Republic of Korea)

S 201

Insect flight and migration: Aerial performance in a changing world
Symposium Organizers: Robert Dudley(U.S.A.), Jason Chapman(United Kingdom)

Room 9

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S201TH01	Arthropod aloft: The origins of aerial behavior and flight <i>Robert Dudley</i>	09:00-09:30
S201TH02	Multimodal sensory control of insect flight <i>Sanjay Prafullachandra Sane, Anand Krishnan, Sunil Prabhakar, Tanvi Deora, Harishada Hemant Sant, Umesh Mohan</i>	09:30-10:00
S201TH03	Dynamic flight stability of a bumblebee in forward flight <i>Mao Sun</i>	10:00-10:30
Coffee/Tea Break		10:30-11:00
S201TH04	Ecophysiology of migratory flight in Lepidoptera <i>Jeremy N. McNeil</i>	11:00-11:30
S201TH05	Reproductive benefits of seasonal insect migration to high latitudes <i>Jason Chapman</i>	11:30-12:00
S201TH06	Orthopteran mass migrations <i>Gregory A. Sward</i>	12:00-12:30
Lunch		12:30-14:00
S201TH07	Orientation behaviour of nocturnal insect migrants observed with a monitoring radar <i>Vincent Alistair Drake, Haikou Wang</i>	14:00-14:30
S201TH08	Orientation and layering behaviors of nocturnal migrant insects revealed with entomological radar in northern China <i>Hongqiang Feng, Kangming Wu</i>	14:30-15:00
S201TH09	Radar entomology in Japan <i>Akira Otuka, Toshiaki Takano, Yuta Matsumoto, Masaya Matsumura</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00

S 202

Mechanisms of regulation of growth rate and size and shape in insects
Symposium Organizers: Jon Harrison(U.S.A.)

Room 9

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S202F01	The role of FoxO in integrating insulin and ecdysone signaling during body size regulation <i>Takashi Kayama, Christen K. Mirth</i>	09:00-09:30
S202F02	The function of Rab4b in insect growth and development <i>Li Hou, Mei-Juan Cai, Qian Song, Jin-Xing Wang, Xiao-Fan Zhao</i>	09:30-10:00
S202F03	Balancing crosstalk between steroid-induced autophagy and apoptosis in <i>Drosophila</i> remodeling fat body <i>Hanhao Liu, Sheng Li</i>	10:00-10:30
Coffee/Tea Break		10:30-11:00
S202F04	Mechanisms and evolution of nutrient-dependent horn allometry in beetles <i>Laura Corley Lavigne, Douglas J. Emlen, Ian A. Warren, Hiroki Gotoh, Ian Dworkin, Toru Miura</i>	11:00-11:30
S202F05	The regulation of organ allometry in <i>Drosophila</i> <i>Alexander Shingleton, Huiyuan Tang, Yu Liang, R. Craig Stillwell, Ian Dworkin, Peter Bates, W. Anthony Frankino</i>	11:30-12:00
S202F06	Is internal hypoxia a signal for the transition from growth to molting in insect larvae? <i>Jon Fawell Harrison, Vivian Collier</i>	12:00-12:30
Lunch		12:30-14:00

Section 3 Insect Immunology, Physiology and Neurobiology

Conveners : Yonggyun Kim(Republic of Korea), Michael Kanost(U.S.A.)

S 301

Hemolymph proteins in immunity

Symposium Organizers : Mike Kanost(U.S.A.), Bok Luel Lee(Republic of Korea)

Room 8

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S301M01	Hemolymph protease cascades in immune responses of <i>Manduca sexta</i> Michael R. Kanost, Chunju An, Jayne M. Christen, Yang Wang, Haobo Jiang	09:00-09:30
S301M02	Identification of bacterial genes expressed upon infection to control pathogenicity in <i>Drosophila</i> Yoshinobu Nakanishi	09:30-10:00
S301M03	Immune proteins in hemolymph of <i>Galleria mellonella</i> In-Hee Lee	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S301M04	Antiviral and "specific" immunity in a crustacean Kenneth Söderhäll	11:00-11:30
S301M05	A link coordinating humoral and cellular responses in <i>Drosophila</i> immunity Shoichiro Kurata	11:30-12:00
S301M06	Hemolymph pattern recognition proteins involved in innate immune responses of <i>Tenebrio molitor</i> Bok-Luel Lee	12:00-12:30
	Lunch	12:30-14:00

S 302

Immune mediators and cross-talk

Symposium Organizers : David Stanley(U.S.A.), Yonggyun Kim(Republic of Korea)

Room 8

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S302M01	Deploying the mosquito IMD pathway in the war against malaria George Dimopoulos	14:00-14:15
S302M02	Biological functions of insect cytokine growth-blocking peptide (GBP) Yoichi Hayakawa	14:15-14:30
S302M03	Both biogenic monoamine and PSP activate hemocyte-spreading via eicosanoids Yonggyun Kim, David Stanley	14:30-14:45
S302M04	Hindgut innate immunity and regulation of fecal microbiota through melanization in insects Qimiao Shao, Bing Yang, Qiuyun Xu, Xuquan Li, Zhiqiang Lu, Chengshu Wang, Yongping Huang, Kenneth Söderhäll, Erjun Ling	14:45-15:00
S302M05	Is lebecin-like protein an antibacterial peptide that specifically functions in the midgut of <i>Spodoptera litura</i> ? Xingyu Lin, Sichun Zheng, Qili Feng	15:00-15:15
	Coffee/Tea Break	15:30-16:00
S302M06	<i>Drosophila</i> immune responses against entomopathogenic nematodes Ulrich Theopold, Zhi Wang, Pavel Dobes, Robert Markus, Pavel Hrysl	16:00-16:15
S302M07	<i>Cotesia congregata</i> bracovirus (CcBV) induces apoptosis of parasitized host plasmatocytes Germain Chevignon, Sébastien Moreau, Hubert Guimier, Elisabeth Huguet, Jean-Michel Drezen	16:15-16:30

S 303

Integrative nutrition: From physiology to ecology and beyond

Symposium Organizers: Spencer T. Behmer (U.S.A.), Kwang Pum Lee (Republic of Korea),
Stephen J. Simpson (Australia)

Room 8

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S303TU01	Nutrition and ageing in <i>Drosophila melanogaster</i> Matthew Piper	09:00-09:15
S303TU02	A fructose receptor functions as a nutrient sensor in the <i>Drosophila</i> brain Tetsuya Miyamoto, Jesse Stone, Xiangyu Song, Hubert Amrein	09:15-09:30
S303TU03	Central neurons modulating feeding motor rhythms in <i>Drosophila</i> Michael Pankratz	09:30-09:45
S303TU04	The hungry fly larvae: strain-specific phenotypic and nutrient signaling responses to varying food Spencer T. Behmer, Lisa Ellis, Aaron Torano	09:45-10:00
S303TU05	Evolving obesity resistance and metabolic-thrift in the genetic model organism - <i>Drosophila melanogaster</i> Lindsey Jane Gray, Alisha Anderson, David Raubenheimer, Stephen James Simpson	10:00-10:15
S303TU06	The honeybee: A sugar junkie Geraldine Wright, Pier Paoli, Daniel Stabier	10:15-10:30
Coffee/Tea Break		10:30-11:00
S303TU07	Nutritional limitation of food chain length Shawn M. Wilder, Michael Norris, David Raubenheimer, Stephen James Simpson	11:00-11:15
S303TU08	Understanding social behaviour through nutrition: Collective decisions in fruit flies Mathieu Lihoreau, Stephen James Simpson	11:15-11:30
S303TU09	Nutritional immunology: A multi-dimensional approach Fleur Ponton, Kenneth Wilson, Andrew J. Holmes, Shenna C. Cotter, David Raubenheimer, Stephen James Simpson	11:30-11:45
S303TU10	Variety is the spice of life: A 21st century reappraisal of dietary mixing in a generalist insect herbivore Helika Vogel, Gregory Sword, Spencer T. Behmer	11:45-12:00
S303TU11	Polygalacturonase activity in phytophagous beetles: One way to utilize plant cell wall polysaccharides Ray Kirsch, Yannick Pouchet, Helika Vogel, David G. Heckel	12:00-12:15
S303TU12	Isothiocyanate metabolism in lepidopteran herbivores Katharina Schramm, Daniel Giddings Vossio, Michael Reichelt, Jonathan Gershenson	12:15-12:30
Lunch		12:30-14:00
S303TU13	Leaf-miner insects modulate nutritional intake through an unexpected association with endosymbiotic bacteria David Giron, Melanie Body, Jerome Casas, Jean-Paul Monge, Arnaud Lanoie	14:00-14:15
S303TU14	Putting a complete nutrient budget to the acid test - and using it Jerome Casas, Melanie Body	14:15-14:30
S303TU15	Plant quality is more than just nutrients: Insect herbivores can choose microclimates to achieve nutritional homeostasis Fiona Chisold, Stephen James Simpson	14:30-14:45
S303TU16	Interplay of nutrition and temperature affecting food intake and performance in insects: A case study from caterpillars Kwang Pum Lee	14:45-15:00
S303TU17	Low plant nitrogen content and high population density enhance migratory characters in a polyphenic locust Arlanne Cease, Jon Harrison, Shuguang Hao, Le Kang, Danielle Niven, James Elser	15:00-15:15
S303TU18	Nutrient regulation strategies in wing polymorphic crickets reflect life history allocation trade-offs Rebecca Maria Clark, Anthony J. Zero, Spencer T. Behmer	15:15-15:30
Coffee/Tea Break		15:30-16:00

S 304

Salivary proteins

Symposium Organizers : Jose M.C. Ribeiro(U.S.A.)

Room 7

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S304TU01	Introduction & Welcoming Remarks <i>Jose Ribeiro</i>	09:00-09:30
S304TU02	Vector saliva as a vaccine target to prevent infectious diseases <i>Jesus G. Valenzuela</i>	09:30-09:45
S304TU03	Mosquito salivary glands as vaccine delivery targets <i>Shigeto Yoshida, Daisuke Yamamoto, Hiroyuki Matsuoka</i>	09:45-10:00
S304TU04	Vector salivary antigens as epidemiological markers <i>Anne Poinssignon, Pape Diame, Alexandra Marie, Herbert Noulpa, Sylvie Cornille, Souleymane Doucoure, Marie Rossignol, Francois Mauchet, Franck Remoue</i>	10:00-10:15
S304TU05	The role of salivary anti proteases in tick feeding and host manipulation <i>Jindrich Chmelar, Helena Harko, John F. Andersen, Michael Mares, Eric Calvo, Jose M. Ribeiro, Ivo M. Francischetti, Joao H. Pedra, Michail Korsybekis</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S304TU06	Insect saliva in plant insect interactions <i>David Prince, Marco Pitino, Alexander Coleman, Claire Drury, Saskia Hogenhout</i>	11:00-11:15
S304TU07	Proteomics of aphid salivary proteins <i>Frederic Francis, Sophie Vandermoten, Edwin DePaauw, Eric Haubruge</i>	11:15-11:30
S304TU08	Function and antigenicity of mosquito salivary proteins <i>Bruno Arca, Fabrizio Lombardo, Raffaele Russo, Cinzia Rizzo, Gabriella Fiorentino, David Modiano</i>	11:30-11:45
S304TU09	Role of salivary in vectors of dengue virus transmission <i>Dorothee Misse, Parnapat Surasombattapattana, Rodolphe Hamel, Sinlaksana Patramool, Nattharwij Luptertip, Hans Yssel</i>	11:45-12:00
Lunch		12:30-14:00

S 305

Neuropeptides and GPCR

Symposium Organizers : Young-Joon Kim(Republic of Korea)

Room 8

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S305W01	PTTH coordinates physiological and behavioral transitions during <i>Drosophila</i> development <i>Naoki Yamanaka, Kim F. Reneltz, Michael B. O'Connor</i>	09:00-09:30
S305W02	Expression and function of neuropeptides and their receptors in <i>Bombyx mori</i> <i>Dusan Zitnan, Nana Dautnerova, Alexandra Zibinova, Ladislav Roller, Da-Hyoung Kim, Michael E. Adams</i>	09:30-09:45
S305W03	<i>Drosophila</i> short neuropeptide F (sNPF) signaling regulates lifespan, body growth, and carbohydrate metabolism through the insulin signaling <i>Kweon Yu</i>	09:45-10:00
S305W04	Neuropeptides in the midgut <i>Jan Adrianus Veenstra</i>	10:00-10:15
S305W05	Updates of neuropeptide mediated regulation of ecdysone biosynthesis in the prothoracic glands of <i>Bombyx mori</i> <i>Masatoshi Iga, Hiroshi Kataoka</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00

Code No.	Presentation Title Authors, Presenting author	Time
S305W06	Multiple transmitter systems regulate adipokinetic hormone signaling in <i>Drosophila</i> Erik C. Johnson, Jason T. Braco, Emily Gillespie, Gregory E. Alberto, Rebecca J. Perry	11:00-11:15
S305W07	G-protein coupled receptors for regulating ecdysteroid biosynthesis in the fruit fly <i>Drosophila melanogaster</i> Yuko Shimada-Niwa, Jevgenija Maramzina, Ryusuke Niwa	11:15-11:30
S305W08	Identification of the molecular domain that confer ligand selectivity of the sex peptide receptor Young-Joon Kim	11:30-11:45
S305W09	Neuropeptide G protein coupled receptors in <i>Glossina morsitans</i> Liliane Schoofs, Jelle Caers, Gerd Gade, Jan Van Den Abbeele, Stephan Tjonnek, Heather Marco	11:45-12:00
Lunch		12:30-14:00

S 306

The role of immunity in host-pathogen interactions

Symposium Organizers: Sassan Asgari(Australia)

Room 8

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S306TH01	Evolutionary plasticity of insect immunity Andreas Vileinskas	09:00-09:30
S306TH02	Virulence factors produced by pathogens provide important insights into the function of the insect immune system Michael R. Strand	09:30-10:00
S306TH03	Infection-induced physiological interaction between the mosquito circulatory and immune systems Julian F. Hillier	10:00-10:15
S306TH04	The impact of isoprenoid precursors released by parasites and pathogens on the immune response in <i>Drosophila</i> and <i>Anopheles</i> Karolina Eriksson-Gonzales, Bo Lindberg, Ofte Terenius, Makoto Hiral, Eleanor Merrill, Benit Olsson, Ingrid Faye	10:15-10:30
Coffee/Tea Break		10:30-11:00
S306TH05	The endosymbiotic <i>Wolbachia</i> as an extension of the host antiviral immune system Karyn N. Johnson	11:00-11:15
S306TH06	Mosquito immunity to human pathogens George Dimopoulos	11:15-11:30
S306TH07	Biochemical characterization of host-immune related molecules by infection of pathogenic or symbiotic bacteria into the hemimetabolous insect, <i>Riptortus pedestris</i> Bok Luel Lee	11:30-11:45
S306TH08	Bacterial flagellin as an initiator of insect immune responses Stuart E. Reynolds, Christophe Fleury	11:45-12:00
Lunch		12:30-14:00

S 307

Insect cuticle

Symposium Organizers: Subbaratnam Muthukrishnan(U.S.A.), Hans Merzendorfer(Germany)

Room 8

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S307TH01	Organisation of the cuticle as a physical barrier involves the C-type lectin Schlaff Khaleelulla Saheb Shaik, Frauke Meyer, Bernard Moussian	14:00-14:30
S307TH02	Cuticular hydrocarbon biosynthesis Rene Feyereisen, Yue Qiu, Clod Fittiger, Claude Wicker-Thomas, Gaëlle Le Goff, Sharon L. Young, Gary J. Blomquist	14:30-14:45
S307TH03	Cuticular hydrocarbons and behaviour in social insects Judith Ingrid Korb	14:45-15:00
S307TH04	Molecular basis of color pattern formation in dragonflies Ryo Futahashi, Takema Fukatsu	15:00-15:15
S307TH05	Wing pigment patterns in the ladybird beetle, <i>Harmonia axyridis</i> Teruyuki Niimi	15:15-15:30
Coffee/Tea Break		15:30-16:00

Code No.	Presentation Title Authors, Presenting author	Time
S307TH06	Relationship of cuticular proteins and sclerotization with mechanical properties of beetle cuticle <i>Michael R. Kanost, Neal T. Dittmer, Yasuyuki Arakane, Patricia A. Sprouse, Joseph Lamakin, Stevin H. Gehrke, Subbaratnam Muthukrishnan, Richard W. Beeman, Karl J. Kramer</i>	16:00-16:30
S307TH07	RNAi-based functional analysis of yellow-e in <i>Tribolium castaneum</i> <i>Mi Young Noh, Michael R. Kanost, Subbaratnam Muthukrishnan, Richard W. Beeman, Karl J. Kramer, Yasuyuki Arakane</i>	16:30-16:45
S307TH08	Laccase activation in ecdysis process <i>Tsunaki Asano</i>	16:45-17:00
S307TH09	Functional analysis of chitin-binding proteins in the cuticle of <i>Tribolium castaneum</i> <i>Subbaratnam Muthukrishnan, Sinu Jaspurika, Sujata Chaudhuri, Beibei Li, Yasuyuki Arakane, Bernard Moussion, Hans Merzendorfer, Charles A. Specht, Richard W. Beeman, Karl J. Kramer</i>	17:00-17:15
S307TH10	Chitin synthesis inhibitors: Old molecules and new developments <i>Hans Merzendorfer</i>	17:15-17:30

S 308

Neuroendocrine system in control of physiology
Symposium Organizers : Yoonseong Park(U.S.A.)

Room 7

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S308TH01	Peptidergic signaling cascades in regulation of insect ecdysis <i>Michael Edward Adams, Do-Hyoung Kim, Durian Zitan</i>	14:00-14:30
S308TH02	The proctolin gene and actions of proctolin in the blood-feeding bug, <i>Rhodnius prolixus</i> <i>Angela B. Lange, Do Hee Lee, Ian Orchard</i>	14:30-15:00
S308TH03	The brown planthopper, <i>Nilaparvata lugens</i> is a new tool for studying the diversity of neuropeptide-signalling in insects. <i>Yoshiaki Tanaka, Takumi Kayukawa, Yoshitaka Suetsugu, Takashi Daimon, Chieko Okada, Kimiko Yamamoto, Hiroaki Noda, Tetsuro Shinoda</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00
S308TH04	Diuretic and anti-diuretic strategies in the blood-gorging bug, <i>Rhodnius prolixus</i> <i>Ian Orchard</i>	16:00-16:30
S308TH05	Evolution of family-B GPCRs in insects and its function in <i>Tribolium castaneum</i> <i>Chengjun Li, Ming Song, Xing Lu, Bin Li</i>	16:30-17:00
S308TH06	Bursicon homodimers induce immune gene expression <i>Qisheng Song</i>	17:00-17:30
S308TH07	Molecular physiology of tick salivation <i>Yoonseong Park</i>	17:30-18:00

S 309

Insect sensory neurobiology
Symposium Organizers : Hyung-Wook Kwon(Republic of Korea),
Walton Jones(Republic of Korea)

Room 7

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S309F01	Mechanisms that underlie learning and memory of complex floral odors by honey bees and moths <i>Brian H. Smith, Fernando F. Locatelli, Patricia C. Fernandez</i>	09:00-09:30
S309F02	Selectivity of moth's olfactory receptor neurons and their odorant receptors <i>Walter S. Leal</i>	09:30-09:45
S309F03	Representation of behaviorally relevant odor information in the <i>Drosophila</i> brain <i>Bülent S. Hansson, Antonia Strutz, Jawaid Ahsan, Silke Sochue, Markus Knaden</i>	09:45-10:00

Code No.	Presentation Title Authors_Presenting author	Time
S309F04	From sensory receptors to functional neural networks: Constructing and deconstructing olfactory circuits in <i>Drosophila</i> Pelin Cayirlioglu Volkan	10:00-10:15
S309F05	Introceptive sugar sensing in <i>Drosophila</i> Greg Suh, Monica Dus, Soohong Min	10:15-10:30
Coffee/Tea Break		10:30-11:00
S309F06	The speed of smell: Odor-object segregation within milliseconds Paul Szyszka, Jacob Silerle, Stephanie Biergan, C. Giovanni Galizia	11:00-11:15
S309F07	Plastic control of olfactory pheromone responses in <i>Drosophila</i> Aki Ejima	11:15-11:30
S309F08	Specialized noses for specialized lifestyles Marcus Carl Stensmyr	11:30-11:45
S309F09	Evolution of the insect chemoreceptor superfamily Hugh M. Robertson	11:45-12:00
S309F10	Optophysiological approaches to olfactory signal transduction and odor processing in larval <i>Drosophila</i> Andre Fiala, Ulrike Piech, Atefeh Poorjasi	12:00-12:15
S309F11	A microRNA-based screen for novel genes involved in olfactory physiology Walton D. Jones	12:15-12:30
S309F12	Structural and functional differences in the antennae of worker honey bees of <i>Apis mellifera</i> and <i>Apis cerana</i> Je won Jung, Kim woong Park, Hyung wook Kwon	12:30-12:45
Lunch		12:30-14:00

Section 4 Development and Reproduction

Conveners: Hideharu Numata (Japan), František Sehnal (Czech Republic)

S 401

Neuropeptides in insect development and reproduction

Symposium Organizers: Klaus H. Hoffmann (Germany), Liesbeth Badisco (Belgium)

Room 3

August 20, Monday

Code No.	Presentation Title Authors: Presenting author	Time
S401M01	Neurohormonal control of desert locust (<i>Schistocerca gregaria</i>) reproductive physiology Liesbeth Badisco, Pieter Van Wierendaele, Senne Dillen, Elisabeth Marchal, Jozef Vanden Broeck	09:00-09:30
S401M02	The distribution and physiological effects of neuropeptides controlling reproductive tissues in the kissing bug, <i>Rhodnius prolixus</i> Angela B. Lange	09:30-09:45
S401M03	RNAi Technology reveals the roles of G-protein coupled receptors in moth reproductive behavior Ada Rafaeli	09:45-10:15
S401M04	The potential for disrupting pupal diapause in <i>Heliothis/Helicoverpa</i> with diapause hormone David Landolt Denlinger, Qirui Zhang, Ronald J. Nachman	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S401M05	Neuroparsin Jan Adrianus Veenstra	11:00-11:15
S401M06	Possible ETH role in regulation of juvenile hormone production in <i>Bombyx</i> Dusan Ziznan, Ivana Daubnerova, Ladislav Raller, Klaus H. Hoffmann, Michael E. Adams	11:15-11:45
S401M07	Juvenile hormone titer and allatregulating neuropeptides in wood-feeding cockroaches and primitive termites Klaus H. Hoffmann, Franziska Wende	11:45-12:00
S401M08	RNAi of the allatotropin peptide precursors and allatotropin receptor highlighting their physiological role in insects: Focus on the red flour beetle, <i>Tribolium castaneum</i> Roger Remi Huybrechts, Julie Tobback, Magdalena Blü, Kristel Vuerinckx	12:00-12:15
S401M09	Epigenetic control of locust phase polymorphism Liliane Schoofs, Arnold De Loof, Bart Boerjan	12:15-12:30
	Lunch	12:30-14:00
S401M10	Functions of sNPF/CCAP autocrine metabolostat regulating feeding, behavior and reproduction in <i>Periplaneta americana</i> Makko Takeda, Azam Mikani, Yoshiki Nagaba, Qishi Wang, Tufail Muhammad	14:00-14:15
S401M11	Behaviour-modifying peptides and peptidases of male accessory glands R. Elwyn Isaac	14:15-14:30
S401M12	The significance of PISCF allatostatins in beetles Neil Audsley, Hans Peter Vandermissen, Robert Weaver, June Matthews, Jozef Vanden Broeck	14:30-14:45
S401M13	Control of molt and metamorphosis in <i>Sesamia nonagrioides</i> (Lepidoptera, Noctuidae) Valeriya Zabelina, Matilde Ezaguirre, František Sehnal, Mercedes Perez-Hedo	14:45-15:00
	Discussion	15:00-15:30
	Coffee/Tea Break	15:30-16:00

S 402

Photoperiodic induction of diapause and seasonal morphs
Symposium Organizers : Shin G. Goto(Japan), Jim Hardie(United Kingdom)

Room 6

August 21, Tuesday

Code No.	Presentation Title Authors Presenting author	Time
S402TU01	Induction of diapause and seasonal morphs in butterflies and other insects <i>Soren Nylin</i>	09:00-09:30
S402TU02	Possible involvement of cryptochrome and opsins in photoperiodic regulation of nymphal development in the cricket <i>Modicogryllus siamensis</i> <i>Kenji Tomioka, Saori Tamaki, Saki Tokemoto</i>	09:30-09:45
S402TU03	Photoperiodic response under control of circadian clock genes in the bean bug <i>Riptortus pedestris</i> <i>Shin G. Goto, Tomoko Ikeda, Kimiko Ishikawa, Hideharu Numata</i>	09:45-10:00
S402TU04	Transcriptomic basis of seasonal photoperiodism regulation in the pea aphid <i>Gael Le Triennaire, Stephanie Jaubert-Possamai, Nathalie Leterme-Prunier, Sylvie Hudaverdian, Sylvie Tanguy, Fabrice Legeai, Jean-Christophe Simon</i>	10:00-10:15
S402TU05	Arylalkylamine N-acetyltransferase is the neuroendocrine interface regulating photoperiodism for pupal diapause of the giant silk moth, <i>Antheraea pernyi</i> <i>Makio Takeda, Ahmed Mahmoud, Jadwiga Bembenek, Taketo Tsugehara, Qingshi Wang</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S402TU06	Endocrine mechanisms underlying loss of seasonal reproductive polyphenism in the pea aphid <i>Asano Ishikawa, Hiroki Gotoh, Kota Ogawa, Toru Muro</i>	11:00-11:15
S402TU07	Pupal color polyphenism in the swallowtail butterflies, <i>Papilio xuthus</i> and <i>P. machaon</i> <i>Akira Yamanaka</i>	11:15-11:30
S402TU08	Inheritance of photoperiodic control of pupal diapause in the cotton bollworm, <i>Helicoverpa armigera</i> (Hubner) <i>Fangsen Xue, Chao Chen</i>	11:30-11:45
S402TU09	Effect of photoperiod on flight propensity and induction of adult diapause in the water strider <i>Limnoporus genitalis</i> (Hemiptera: Gerridae) <i>Rinshiro Masuda, Shiro Nakao</i>	11:45-12:00
S402TU10	Surviving winter: Diapause syndrome in the southern green stink bug <i>Nezara viridula</i> in the laboratory, in the field, and under climate change conditions <i>Dmitry L. Musafin</i>	12:00-12:15
S402TU11	A lunar rhythm derived from photoperiodic induction of diapause? Experimental dissection of lunar rhythms in the marine midge <i>Clunio marinus</i> <i>Tobias S. Kalsner, David G. Heckel</i>	12:15-12:30
Lunch		12:30-14:00

S 403

From embryo to metamorphosis: Genes for insect development
Symposium Organizers : Sumihare Noji(Japan), Martin Klingler(Germany)

Room 6

August 21, Tuesday

Code No.	Presentation Title Authors Presenting author	Time
S403TU01	New developmental gene functions identified by a genome-wide RNAi screen in the four beetle <i>Tribolium</i> <i>Martin Klingler, Gregor Bucher, The iBeetle Consortium</i>	14:00-14:30
S403TU02	Exploring mechanisms of embryonic patterning in <i>Gryllus bimaculatus</i> , a hemimetabolous insect model system <i>Taro Mito, Taro Nakamura, Tetsuya Bando, Takahito Watanabe, Sumihare Noji</i>	14:30-15:00
S403TU03	Role of Wnt and BMP signaling pathways in the regional specification of early blastoderm in the cricket <i>Gryllus bimaculatus</i> <i>Taro Nakamura, Taro Mito, Tetsuya Bando, Sumihare Noji</i>	15:00-15:15
S403TU04	The function of protein phosphatase 6 in the programmed cell death in the insect midgut <i>Chuan-Xu Wang, Peng-Cheng Liu, Jin-Xing Wang, Xiao-Fan Zhao</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00

Code No.	Presentation Title Authors, Presenting author	Time
S403TU05	The evolution of dorsoventral patterning in insects <i>Siegfried Roth</i>	16:00-16:30
S403TU06	Evolution of insect thoracic morphology: Emerging views <i>Aleksander Popadic</i>	16:30-17:00
S403TU07	Morphological diversity of wing serial homologues in the mealworm beetle, <i>Tenebrio molitor</i> <i>Takahiro Ohde, Toshihito Yaginuma, Teruyuki Nimi</i>	17:00-17:15
S403TU08	Dachsous/Fat signaling via Hippo/Salvador/Warts pathway regulates cell proliferation and pattern formation during leg regeneration in the cricket <i>Tetsuya Bando, Yoshimasa Hamada, Taro Nakamura, Taro Mito, Hideyo Ohuchi, Sumiharu Naji</i>	17:15-17:30

S 404

New complexities in the regulation of insect diapause and cold hardiness

Symposium Organizers : Kyeong-Yeoll Lee (Republic of Korea), David L. Denlinger (U.S.A.)

Room 7

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S404TU01	Freeze tolerance in drosophilid flies: A comparison of two species, the fruit fly and the malt fly <i>Vladimir Kostal</i>	14:00-14:30
S404TU02	Insect cold storage technology: Design and practical applications <i>Roger Allen Leopold</i>	14:30-15:00
S404TU03	Transcriptome sequencing reveals molecular components of diapause preparation in the Asian tiger mosquito, <i>Aedes albopictus</i> <i>Peter Armbruster, Monica Poekchoi, Christine Elisk, Julie Reynolds, David Denlinger</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00
S404TU04	A role for insulin signaling as a regulator of mosquito diapause <i>David Leindis Denlinger, Cheolho Sim</i>	16:00-16:15
S404TU05	Molecular mechanisms of <i>Bombyx mori</i> embryonic diapause <i>Toshinobu Yaginuma, Teruyuki Nimi, Kuriko Kidokoro, Keiko Kadono-Oikuda, Okitsugu Yamashita</i>	16:15-16:30
S404TU06	Stress tolerance in the Antarctic midge, <i>Belgica antarctica</i> <i>Richard Earl Lee Jr, David L. Denlinger</i>	16:30-16:45
S404TU07	Drying out to survive the winter: Using RNA-seq to identify genes involved in overwintering in the Antarctic midge, <i>Belgica antarctica</i> <i>Nicholas Maria Teets, Justin T. Peyton, David L. Denlinger</i>	16:45-17:00
S404TU08	Global analysis of hemolymph and brain metabolites during initiation and maintenance of pupal diapause in the cotton bollworm, <i>Helicoverpa armigera</i> <i>Yun-Guan Li, Wei-Hua Xu</i>	17:00-17:15
S404TU09	Temperature effects on the prolonged egg diapause of a katydid, <i>Paratlanticus ussuriensis</i> <i>Kyeong-Yeoll Lee, Jae-Kyoung Shim, Hae-Som Bang</i>	17:15-17:30

S 405

Hormonal control of development

Symposium Organizers : Marek Jindra (Czech Republic), Tetsuro Shinoda (Japan)

Room 10

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S405W01	Juvenile hormone synthesis undressed <i>Crisalejandra Rivera-Perez, Marcelo Nouzova, Mark E. Cifron, Fernando Gabriel Noriega</i>	09:00-09:15
S405W02	Molecular characterization of molting mutants of the silkworm, <i>Bombyx mori</i> <i>Takaaki Dalmon, Tetsuro Shinoda</i>	09:15-09:30
S405W03	The juvenile hormone-methoprene-tolerant complex regulates maturation of the adult optic lobe and female receptivity in <i>Drosophila</i> <i>Lynn M. Riddiford, Julie Ellen</i>	09:30-09:45

Code No.	Presentation Title Authors_Presenting author	Time
S405W04	Met-mediated JH signalling in adult mosquitoes <i>Jinsong Zhu, Ming Li</i>	09:45-10:00
S405W05	MET is required for maximal action of 20-hydroxyecdysone in inducing gene expression and tissue remodeling during <i>Bombyx</i> metamorphosis <i>Erren Guo, Sheng Li</i>	10:00-10:15
S405W06	Broad complex in hemimetabolous metamorphosis: The case of cockroaches <i>Jia-Hsin Huang, Jesus Lozano, Xavier Belles</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S405W07	Signaling through the JH receptor Met and the repressor of metamorphosis Kr-h1 is common to insects <i>Marek Jindra, Jean-Philippe Charles, Thomas Iwema, V. Chandana Epa, Keiko Takaki, Barbara Konopova, Vlastimil Smykal, Jan Rymes</i>	11:00-11:15
S405W08	Prothoracicotropic hormone signaling in prothoracic glands of the silkworm, <i>Bombyx mori</i> <i>Shi-Hong Gu</i>	11:15-11:30
S405W09	Identification and characterization of Noppera-bo, a novel Halloween-class ecdysteroidogenic enzyme <i>Sora Enya, Yuko Shimada-Niwa, Yoshinari Fujimoto, Tetsuro Shinoda, Ryusuke Niwa</i>	11:30-11:45
S405W10	Ecdysone receptors: Structure and biology <i>Ronald Johnston Hill, Danya Tahidi-Esfahani, Lloyd D. Graham, Matthew Pollard, Linda Howell, Ross Terrence Fernley, Julian Grusovin, George Lavrecz, Loui Lu, Tram Phan, Pat Pilling, Ben Ren, Victor Streltsov, Thomas S. Peat, David A. Winkler, Michael C. Lawrence</i>	11:45-12:00
S405W11	Two adjacent cis-regulatory elements are required for the ecdysone response of ecdysone receptor (EcR) gene in <i>Lepidoptera</i> <i>Haruhiko Fujiwara, Hiroyuki Shirai, Morabu Kamimura, Junichi Yamaguchi</i>	12:00-12:15
S405W12	Local functions of the secreted insulin-antagonist Imp-L2 in <i>Drosophila</i> <i>Hugo Stocker, Ladam Sarraf-Zadeh, Rudiger Border, Stefan Christen, Paola Cognigni, Katja Koehler, Irene Miquel-Aliga, Michael Pinkolitz, Ernst Hafen</i>	12:15-12:30
S405W13	The insulin signaling pathway is required for the death of crochets forming cells during pupal metamorphosis <i>Kiyoshi Hiruma, Mari Akitomo, Yasuhiro Sugime, Yu Kaneko</i>	12:30-12:45
Lunch		12:30-14:00

S 406

Evolution and development of integrated phenotypes

Symposium Organizers : Pavel Tomanek (Germany), Christine K. Mirth (Portugal)

Room 10

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
S406TH01	Developmental hourglass and the chicken and egg causality dilemma <i>Pavel Tomanek</i>	09:00-09:30
S406TH02	The evolution of novel and diverse mechanisms of arthropod germ cell specification <i>Ben S. Ewen-Campen, Seth Donaghe, Tamara Jones, Evelyn E. Schwager, John R. Sroufe, Victor Zeng, Donald Nat Clarke, Cassandra Gabrielle Extavour</i>	09:30-10:00
S406TH03	The coordination of growth within and between organs in <i>Drosophila</i> <i>Alexander Shingleton, Nathan Parker, Takashi Hayashi, Sasha Makaren-Moore</i>	10:00-10:30
Coffee/Tea Break		10:30-11:00
S406TH04	Comparative systems-level studies of appendage morphogenesis using the crustacean model <i>Parhyale hawaiiensis</i> <i>Anastasios Pavlopoulos, Carsten Wolff, Pavel Tomanek</i>	11:00-11:30
S406TH05	Rapid physiological evolution following habitat invasions <i>Carol Eunmi Lee</i>	11:30-12:00

Code No.	Presentation Title Authors_Presenting author	Time
S406TH06	The development and evolution of the exaggerated weapons of sexual selection <i>Hiroki Gotoh, Ian A. Warren, Annika Johns, Ian M. Dworkin, Douglas J. Emlen, Toru Mura, Laura Corley Lawrie</i>	12:00-12:15
S406TH07	Population dynamics of poplar leaf miner <i>Lithocolletis populifoliella</i> Tr. in <i>Abbas Hosseinzadeh, Zahra Hashemi Khabiz, Negar Aliaghi, Nouredin Shayesteh</i>	12:15-12:30
Lunch		12:30-14:00

S 407

Molecular aspects of insect reproduction

Symposium Organizers : Klaus Hartfelder(Brazil), Maria Dolors Piulachs(Spain),
Halyna R. Shcherbata(Germany)

Room 3

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
S407F01	Diverse developmental and genetic mechanisms direct convergent evolution of a reproductive fitness trait in <i>Drosophila</i> <i>Delbert Andre Green II, Didem Pelin Sarikaya, Abel Assela Belay, Aisha Dorta, Abha Ahuja, Cassandra Gabrielle Extavour</i>	09:00-09:30
S407F02	Cytosome-mediated delivery of hedgehog regulates the expression of bone morphogenetic proteins to maintain germline stem cells in <i>Drosophila</i> <i>Acalmo Gonzalez Reyes, Isabel Guerrero, Patricia Rojas-Rios</i>	09:30-09:45
S407F03	Laminins are required for proper formation and maturation of eggs in <i>Drosophila</i> <i>Maria Dolores Martin Bermudez, Maria del Carmen Diaz de la Laza, Acalmo Gonzalez Reyes</i>	09:45-10:00
S407F04	Steroids and miRNAs cooperate in regulation of the stem cell niche <i>Halyna R. Shcherbata</i>	10:00-10:30
Coffee/Tea Break		10:30-11:00
S407F05	Hormonal coordination of niche formation with germ line stem cell establishment <i>Dana Gancz, Tamar Lengil, Lilach Gilboa</i>	11:00-11:15
S407F06	Insulin signaling: A tangled web controlling reproduction and aging in the mosquito <i>Michael A. Riehle, Janya Antonova-Kach, Anam Anik, Kendra Quicke, Lewis Vilsul Hun</i>	11:15-11:30
S407F07	The Hippo pathway in panoistic ovaries <i>Maria Dolores Piulachs, Paula Ines</i>	11:30-12:00
S407F08	Designing of a virus-regulated mosquito lethal gene <i>Margareth Lara Capurro</i>	12:00-12:15
S407F09	Promotor sequences of two vitellogenin genes and transcription regulations by JH/20E and endocrine disruptors <i>Makio Takeda, Azza Elgendy, Yoshiki Nagaba</i>	12:15-12:30
Lunch		12:30-14:00
S407F10	Cell competition and compensatory cellular hypertrophy in nonproliferating tissue <i>Yachiro Tamori, Wu-Min Deng</i>	14:00-14:15
S407F11	Micro RNAs in the control of the differential development of <i>Apis mellifera</i> <i>Zila Luz Paulino Simoes</i>	14:15-14:30
S407F12	The influence of juvenile hormone on the social physiology of bumble bees (<i>Bombus terrestris</i>) <i>Hagai Shpigler, Adam Siegel, Christina M. Grozinger, Guy Bloch</i>	14:30-14:45
S407F13	Transcriptional control of ovary size - cell death in the ovary of honey bee worker larvae <i>Klaus Hartfelder, Fernando Carvalho, Gustavo Jacomini Tiberio</i>	14:45-15:00

Section 5 Genetics, Genomics and Evolutionary Entomology

Conveners: Yong-ping Huang(China), Kostas Bourtzis(Greece)

S 501

Comparative and functional genomics of non-Diptera insects

Symposium Organizers: John Werren(U.S.A.), Stephen Richards(U.S.A.)

Room 7

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S501M01	The iSK pilot genome sequencing at the Human Genome Sequencing Center <i>Stephen Richards</i>	09:00-09:30
S501M02	The arthropod genomics revolution <i>Xin Zhou</i>	09:30-10:00
S501M03	Molecular regulatory mechanism of phase change in locusts <i>Le Kang</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S501M04	What <i>Nasonia</i> Genomes Reveal about Adaptation & Speciation <i>John H. Werren</i>	11:00-11:30
S501M05	An integrative approach applied to the phenotypic plasticity of the pea aphid <i>Denis Tagu, Fabrice Legrand, Julie Jaquery, Lucie Mitezet, Frederique Maheo, Nathalie Prunier, Joel Bonhomme, Pierre Nouhaud, Claude Rispe, Oscar Gagliotti, Remi Houlgatte, Solenn Stoeckel, Jean-Christophe Simon</i>	11:30-12:00
S501M06	DNA methylation variation among morphs of the pea aphid, <i>Acyrtosiphon pisum</i> <i>Owain Rhys Edwards, Denis Tagu, Jennifer Brisson, Stephanie Joubert-Possamai</i>	12:00-12:30
	Lunch	12:30-14:00
S501M07	The genome of two spotted spider mite <i>Tetranychus urticae</i> <i>Miodrag Grbic, Thomas Von Leeuwen, Richard Clark, Maria Navajas, Yves Van de Peer, Isabel Diaz, Felix Ortega, Rene Feyereisen, Vojislava Grbic</i>	14:00-14:30
S501M08	Regulation of immune genes in silkworms: From transcriptome to individual genes <i>Javaregewda Nagaraju</i>	15:00-15:30
	Coffee/Tea Break	15:30-16:00
S501M09	Sequencing small and large insect genomes <i>Hugh M. Robertson</i>	16:00-16:30
S501M10	Molecular evolution in social insects <i>Michael Goodisman</i>	16:30-17:00
S501M11	Identification and analysis of conserved elements in social insect genomes <i>Cai Li</i>	17:00-17:30
S501M12	Comparative Genomics of Ants <i>Juergen Rudolf Gadau, Lothar Wissler, Daniel F. Simola</i>	17:30-18:00
S501M13	Identification and characterization of long noncoding RNA in the Locust <i>Locusta migratoria</i> reveals roles in phenotypic plasticity regulation <i>Bing Chen, Yi Zhang, Xia Zhang, Gangxin Peng, Le Kang</i>	18:00-18:30
S501M14	Genomic consequences of multiple speciation processes in a stick insect <i>Patrik Hasl</i>	18:30-19:00

S 502

Insect transgenics: techniques and applications

Symposium Organizers: Anthony James(U.S.A.), Alfred M. Handler(U.S.A.), Anjiang Tan(China)

Room 16

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S502M01	Transposon structure and function in multiple eukaryotic systems <i>Peter Atkinson, Peter Arensburg, Robert H. Rice, Jennifer A. Wright, Nancy L. Craig</i>	09:00-09:30

Code No.	Presentation Title Authors, Presenting author	Time
S502M02	Transposon-based genetic analysis in <i>Anopheles stephensi</i> David A. O'Brochta	09:30-10:00
S502M03	Transgenic silkworms for analysis of gene function and production of recombinant proteins Hideki Sezutsu, Tokuya Tsubota, Mizuko Osanai-Futahashi, Takao K Suzuki, Ken-ichiro Tatematsu, Itao Kobayashi, Tetsuya Iizuka, Keira Uchino, Naoyuki Yanemura, Yoko Tokaiji, Toshiaki Tamura	10:00-10:30
Coffee/Tea Break		10:30-11:00
S502M04	A new hAT-family transposon vector, hopper, from the Oriental fruit fly, <i>Bactrocera dorsalis</i> Alfred M. Handler	11:00-11:30
S502M05	Site-specific recombination for transgene targeting in tephritid genomes Marc F. Schetelig, Alfred M. Handler	11:30-12:00
S502M06	Genetic control of vector-borne pathogens Anthony A. James	12:00-12:30
Lunch		12:30-14:00
S502M07	Disrupting mosquito attraction to host cues by targeted mutagenesis of the orco olfactory co-receptor Matthew DeGennaro, Carolyn S. McBride, Laura Seeholzer, Takao Nakagawa, Chloe Goldman, Nijole Jasniakienė, Anthony A. James, Leslie B. Vasshall	14:00-14:30
S502M08	Development of 'male-only' strains of the New World screwworm fly, <i>Cochliomyia hominivorax</i> Maxwell John Scott, Felix Guerrero, Fang Li, Azhahanambi Palaveiam, Agustín Sagcal	14:30-15:00
S502M09	A transgene-based maternally-driven RNAi system produces male-only progeny in the Mediterranean fruit fly, <i>Ceratitis capitata</i> Giuseppe Saccone, Marco Salvemini, Valeria Petrella, Rocco D'Amato, Cotelletto Lino Polito	15:00-15:30
Coffee/Tea Break		15:30-16:00
S502M10	Transgenic approach in the genetic control of Lepidopteran insects, <i>Bombyx mori</i> and <i>Ostrinia furnacalis</i> Anjiang Yan, Baolong Niu, Guoliang Fu, Luke Alphey, Zhiqi Meng, Yongping Huang	16:00-16:30
S502M11	First and second generation paratransgenesis for control of vector-borne diseases Ravi Durvasula	16:30-17:00
S502M12	Paratransgenesis to control the transmission of malaria David Lampe, Nicholas Bongio, Sibao Wang, Marcelo Jacobs-Lorena	17:00-17:30

S 503

Insect mitochondrial genomics

Symposium Organizers : Stephen Cameron(Australia), Iksoo Kim(Republic of Korea)

Room 17

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S503M01	Panarthropod phylogeny based on mitochondrial genomes Uli Wook Hwang, Shi Hyun Ryu, Eun Hwa Choi, Keum-Hae Jang	14:00-14:30
S503M02	Structure, evolution and phylogeny of polyneopteran mitogenomes Shalchiro Tomita, Natuo Komoto, Kenji Yukuhiro	14:30-15:00
S503M03	Phylogenomic, transcriptional and evolutionary studies of mitochondrial genomes for orthopteran insects Yuan Huang	15:00-15:30
Coffee/Tea Break		15:30-16:00
S503M04	What can mitochondrial genomes tell about beetle evolution?: Strengths and pitfalls of mitochondrial phylogenomics Hojun Song	16:00-16:30
S503M05	Mitogenomics of the Coleoptera underdense taxon sampling Alfred P. Vogler, Marjett J.T.N. Timmermans, Ladislav Bocak, Sujatha N. Kuttu, Jun Lim, Ruie Nie	16:30-17:00

Code No.	Presentation Title Authors, Presenting author	Time
S503M06	Mitochondrial genome evolution in Hymenoptera Mark Dowton, Meng Mao, Andrew D. Austin, Stephen L. Cumeron, Norman F. Johnson	17:00-17:30
S503M07	Phylogenetic position of Hesperidae in Lepidoptera using mitochondrial genome data with the description of newly sequenced skippers Iksoo Kim, Min Jee Kim, Ah Rho Wang, Jeong Sun Park	17:30-18:00
S503M08	Insect mitochondrial genome database (IMGD): An integrated platform for insect mitochondrial genomes Wonhoon Lee	18:00-18:30

S 504

Development and evaluation of improved strains of insect pests for sterile insect technique
 Symposium Organizers : Gerald Franz(Austria), Kyeong-Yeoll Lee(Republic of Korea),
 Ju-Woon Lee(Republic of Korea)
 Co-hosted by The International Atomic Energy Agency (IAEA)

Room 15

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S504TU01	Regulation of transposons in pestiferous mosquitoes and tephritid fruit flies that are subjects of SIT programs Peter Atkinson, Peter Arensburg, Robert H. Hice, Jennifer A. Wright	09:00-09:30
S504TU02	Transgenic sexing system for <i>Ceratitis capitata</i> (Diptera: Tephritidae) based on female-specific embryonic lethality Ernst A. Wimmer, Christian Ejike Ogaugwu	09:30-10:00
S504TU03	Transcriptional profiles of mating responsive genes from testes and male accessory glands of the mediterranean fruit fly, <i>Ceratitis capitata</i> Ludvik M. Gomulski, Francesco Scari, Paolo Siciliani, Paolo Gabrieli, Marco Falchetti, Mose Manri, Anna R. Malacrida, Giuliano Gasperi	10:00-10:30
Coffee/Tea Break		10:30-11:00
S504TU04	Female-specific embryonic lethality strains for the Mexican fruit fly, <i>Anastrepha ludens</i> Marc F. Schetelig, Alfred M. Handler	11:00-11:30
S504TU05	Assessment of genetic diversity of the olive fly Israeli SIT laboratory strain Nikos E. Zygouridis, Yael Argov, Esther E. Nemny-Lavy, David Nestel, Kostas D. Mathiopoulos	11:30-12:00
S504TU06	Towards the development of improved sterile insect release protocols : Genome analysis of three Australian tephritid pests Stuart Gilchrist, Deborah Shearman, Marianne Frommer, Kathryn Raphael, William Sherwin, Nandan Deshpande, Marc Wilkins, John Sved	12:00-12:30
Lunch		12:30-14:00
S504TU07	Development and characterization of genetic sexing strains of the oriental fruit fly, <i>Bactrocera dorsalis</i> , and the guava fruit fly, <i>Bactrocera correcta</i> for SIT Sujinda Thanaphum, Sirinwan Issasawin, Nidchaya Aketawong	14:00-14:30
S504TU08	Approaching problems for <i>Anastrepha fraterculus</i> SIT with genetic and molecular tools: Reproductive strategy, sex determination, and loss of variability in the lab Jorge Luis Cladera, Mariana Ju, Alejandro Parrero, Cecilia Giardin, Silvia Lanzavecchia	14:30-15:00
S504TU09	Development and evaluation of genetic sexing strains of <i>Anastrepha ludens</i> for sterile insect technique Cristina Silvia Zepeda Cisneros, Jose Salvador Meza Hernandez, Jorge Ibanez Palacios, Victor Garcia Martinez, Angel Humberto De Leon Cristostomo, Hector Santiago Flores Garcia	15:00-15:30
Coffee/Tea Break		15:30-16:00
S504TU10	Improving the sterile sperm ID method for its implementation in the aw-SIT program against <i>C. capitata</i> in Spain Mano A. Juan, Blasco, Pedro Costanera, Alberto Urbaneja, Beatriz Sabater Munoz	16:00-16:30

Code No.	Presentation Title Authors, Presenting author	Time
S504TU11	Field evaluation of a pupal color genetic sexing strain of the Mexican fruit fly, <i>Anastrepha ludens</i> Edwin Mauricio Ramirez, Pedro Rendon, Carlos Caceres, Raul Menendez, Cristina Zepeda, Diana Ornela, Donald McInnis, Hugh Conway, John Stewart	16:30-17:00
S504TU12	Development of genetic sexing strains in the codling moth František Mareš, Radmila Čapková Frydrychová, Petr Nguyen, Václav Kuta, Michala Korandová, Miroslava Sykora, Jindra Sichová, Martina Dalková, Magda Vitková, Ken Sahara, Lho G. Neven	17:00-17:30
S504TU13	Role of the Y chromosome in the <i>Ceratitis capitata</i> sex determination and reproduction Giuseppe Saccone, Marco Salvemini, Rocco D'Amato, Archana Tomar, Valeria Petrella, Silvia Ciaff, Romana Dallai, Daniela Marchini, Gerald Franz, Javaregowda Nagaraju, Catello Lino Palto	17:30-18:00
S504TU14	Towards identifying sex determination pathway genes in the silkworm <i>Bombyx mori</i> for their possible use in genetic sexing strategies Javaregowda Nagaraju	18:00-18:30
S504TU15	Cross mobility of piggyBac-like elements Min Wu, Guanghua Luo, Xiaofang Wang, Zhaojun Han	18:30-19:00

S 505

Sexual selection and sperm competition: Theories and applications
Symposium Organizers: Qiao Wang (New Zealand)

Room 16

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
	Welcoming Remarks	09:00-09:15
S505TU01	The role of apyrene sperm in the polyandrous swallowtail butterflies Mamoru Watanabe	09:15-09:30
S505TU02	Evolution of ultrasonic courtship signals through sensory bias in moths Ryo Nakano	09:30-09:45
S505TU03	The presence of rivals reduces reproductive fitness of male moths Jin Xu, Qiao Wang	09:45-10:00
S505TU04	Comparative evidence that copulatory spermatophore guarding is associated with smaller nuptial gifts and modifications in the form and/or use of the male's cerci in bushcrickets. Karim Yehed, James David Jensen Gilbert, Ludvína Barrientos Lázaro, David B. Weissman	10:00-10:15
S505TU05	What's so interesting about spider sperm? Marie E. Herberstein	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S505TU06	Should inbreeding avoid or tolerate? Inbreeding avoidance or tolerance? Comparison of mating behavior between strong- and weak- inbreeding depression strains of the sweet potato weevil Takashi Kuriwada	11:00-11:15
S505TU07	Nuptial feeding diversity and its morphological basis in scorpionflies (Mecoptera: Panorpididae) Wen Zhang, Baozhen Huo	11:15-11:30
S505TU08	Scramble competition and sperm competition in a sexually cannibalistic mantis Gregory Ian Howell	11:30-11:45
S505TU09	Sexual selection on <i>Toxotrypana curvicauda</i> Gerstaecker (Diptera: tephritidae) Alfredo Jimenez-Perez, Rene Arzuffi, Nancy Salmeron-Muniz, Patricia Villa-Ayala, Lilia Salazar-Marcos, Norma Robledo	11:45-12:00
S505TU10	Male responses to sperm competition: Adaptation, or are males just paranoid? Zenobia Lewis, Anne Lise Rowan Doff, Eve Smaller, Greg Hurst	12:00-12:15
S505TU11	Intra-specific variation in the effect of male-derived substances on female mating behaviours in <i>Callosabrychus chinensis</i> Takashi Yamane	12:15-12:30
	Lunch	12:30-14:00

S 506

Physiological genomics of the insect midgut

Symposium Organizers : Daniel Doucet(Canada), John Christeller(New Zealand)

Room 16

August 21, Tuesday

Code No.	Presentation Title Authors: Presenting author	Time
S506TU01	Post-blood feeding changes in the transcriptomes of vector mosquitoes <i>Anthony A. James, W. Augustine Dunn, Osvaldo Morinatti, Xiaohui Xie</i>	14:00-14:30
S506TU02	Exploiting different host plants: A spider mite genomic and transcriptome perspective <i>Wannes Dermauw, Nicky Wybouw, Stéphane Bombauts, Mladrag Gbric, Richard M. Clark, Björn Menten, René Feyereisen, Luc Tirry, Thomas Van Leeuwen</i>	14:30-15:00
S506TU03	Deconstruction of the plant primary cell wall: An insect perspective <i>Yannick Pauchet, Roy Kirsch, Heiko Vogel, David G. Heckel</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00
S506TU04	Molecular organization of <i>Drosophila</i> gustatory receptors in enteroendocrine cells <i>Jong-Ho Park, Jae Young Kwon</i>	16:00-16:30
S506TU05	Midgut transcriptomics of an invasive insect species <i>Omrakash Mittapalli, Praveen Mamsala, Swapna Priya Rajarapu, Pierluigi Bonelli, Daniel Hermis</i>	16:30-16:45
S506TU06	Transcriptomic responses of the lepidopteran midgut to xenobiotics <i>Gaëlle Li Goff, Mérya Giraud, Frédérique Héliou, Tran Trang, René Feyereisen</i>	16:45-17:00
S506TU07	CD36 family proteins are responsible for the tissue specific uptake of certain carotenoid species in the silkworm, <i>Bombyx mori</i> <i>Kazuo Tsuchida, Takashi Sakudoh</i>	17:00-17:15
S506TU08	Physiological genomics of lepidopteran larval digestive lipases <i>John Tane Christeller, Sawan Amara, Frederic Carriere</i>	17:15-17:30
S506TU09	Tissue specific transcriptome of <i>Choristoneura fumiferana</i> larvae <i>Dayu Zhang, Daniel Doucet</i>	17:30-17:45
S506TU10	Midgut enzymes from the spruce budworm: A genome-scale investigation <i>Daniel Doucet, Dayu Zhang, Michel Cussan, Roger Levesque</i>	17:45-18:00

S 507

Small non-coding RNAs and genome expression

Symposium Organizers : Denis Tagu(France)

Room 11

August 22, Wednesday

Code No.	Presentation Title Authors: Presenting author	Time
S507W01	Networks: Small non-coding RNAs write the screenplay <i>Denis Tagu, Valentin Wucher, Jacques Nicolas</i>	09:00-09:15
S507W02	The role of microRNAs in host-pathogen interactions <i>Sassan Asgari</i>	09:15-09:45
S507W03	Non-coding RNAs in <i>Bombyx mori</i> <i>Yunchao Kan</i>	09:45-10:15
Coffee/Tea Break		10:30-11:00
S507W04	Gender and stressor specific microRNA expression in <i>Tribolium castaneum</i> <i>Andreas Wilczynski, Dalal Frestak, Eileen Knorr, Heiko Vogel</i>	11:00-11:30
S507W05	The roles of miRNAs in metamorphosis development in <i>Chilo suppressalis</i> (Walker) <i>Sun Yang, Yu Lun, Zhong Zan, Li Fei</i>	11:30-12:00
Lunch		12:30-14:00

S 508

Evolutionary dynamics of insect acoustic communication

Symposium Organizers : Yikweon Jang (Republic of Korea), David Gray (U.S.A.)

Room 12

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S508W01	Genetic architecture of sexually selected traits in acoustic Lepidoptera <i>Michael D. Greenfield, Denis Limousin, Sylvain Aleix, Rejane Streiff</i>	09:00-09:30
S508W02	Acoustic communication and dynamics of mating investments in bushcrickets (Orthoptera: Tettigoniidae) <i>Gerlind U.C. Lehmann</i>	09:30-10:00
S508W03	Behavioral plasticity and host specialization in an acoustically orienting parasitoid <i>David Gray</i>	10:00-10:30
	Lunch	10:30-11:00
S508W04	Age and the effect of social interaction on animal personality <i>Chang Seok Han, Robert Brooks</i>	11:00-11:30
S508W05	Reproductive isolation between two closely related cricket species, <i>Gryllus fultoni</i> and <i>G. vernalis</i> <i>Yikweon Jang</i>	11:30-12:00
S508W06	Understanding reproductive isolation in duetting green lacewings through the quantitative genetics of song and preference <i>Suegene Noh</i>	12:00-12:30
S508W07	Plasticity of predator avoidance affect optimal timing of aposematic signaling in prey: Predictions from agent-based modelling <i>Woncheol Song, Piotr Grzegorz Jablonski, Sang-In Lee</i>	12:30-13:00
S508W08	Divergence in mating displays predicted by divergence in mate preferences, not their strength <i>Rodriguez Rafael, David Gray, Janette W. Boughman, Eileen A. Hebets, Gerlinde Hobel, Laurel B. Symes</i>	13:00-13:30

S 509

Musca domestica genetics and genomics

Symposium Organizers : Daniel Bopp (Switzerland), Leo Beukeboom (The Netherlands)

Room 16

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S509W01	The <i>Musca domestica</i> genome and transcriptome analysis in relation to insecticide resistance <i>Michael Kristensen, Jeff G. Scott, Nannan Liu, Andrew G. Clark</i>	09:00-09:30
S509W02	Sex and the housefly: Evidence for a conserved bifurcation of the sex-determining pathway <i>Daniel Bopp, Nicole Meier</i>	09:30-09:45
S509W03	The quest for the elusive male determining factors in the housefly <i>Leo W. Beukeboom, Daniel Bopp</i>	09:45-10:00
S509W04	Age-dependent manifestation of sex-linked wings fragility mutation in <i>Musca domestica</i> <i>Galina Benkovskaya</i>	10:00-10:15
	Coffee/Tea Break	10:30-11:00
S509W05	The transcriptome of hytrosavirus infected <i>Musca domestica</i> <i>Orlen Garth Boucias</i>	11:00-11:15
S509W06	The prospects for parasitoid-housefly interactions using genomic approaches <i>John Werren</i>	11:15-11:30
	Discussion	11:30-12:30
	Lunch	12:30-14:00

S510

Bioinformatics and the next-gen revolution

Symposium Organizers: Zhijian Jake Tu (U.S.A.), Xuan Li (China)

Room 11

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S510TH01	Opportunities and challenges of non-model ecoinformatics Scott Emrich	09:00-09:30
S510TH02	Analyzing biodiversity for bulk insect samples using Illumina NGS Xia Zhou, Shankin Liu, Yiyuan Li, Xu Su, Qing Yang, Ribei Fu	09:30-10:00
S510TH03	Sex, Y genes and gene duplications in <i>Anopheles</i> mosquitoes: Integrating bioinformatics, next-gen sequencing, and digital droplet PCR Zhijian Tu	10:00-10:30
Coffee/Tea Break		10:30-11:00
S510TH04	Strain variation in the transcriptome of the dengue fever vector, <i>Aedes aegypti</i> Anthony A. James, Mariangela Bonizzoni, W. Augustine Dunn, Corey L. Campbell, Osvaldo Marinatti, Ken E. Olson	11:00-11:30
S510TH05	De-novo transcriptome sequencing to identify the molecular underpinnings of seasonal adaptation in the Asian tiger mosquito, <i>Aedes albopictus</i> Peter Armbruster, Monica Poelchau, Christine Elvik, Julie Reynolds, David Denlinger	11:30-12:00
S510TH06	Genomic dissection of <i>Wolbachia</i> -dengue interactions in mosquitoes Zhiyong Xi, Xiaoling Pan, Guoli Zhou, Jiahong Wu, Guowei Bian, Peng Lu, Alexander S. Raikhet	12:00-12:30
Lunch		12:30-14:00
S510TH07	Genomic analysis of inversion breakpoints revised the chromosomal phylogeny and evolutionary history of African malaria mosquitoes Igor V. Sharakhov, Maryem Kamali, Ai Xia, Zhijian Tu	14:00-14:30
S510TH08	Comparative genomics of insect pathogenic fungi Qiong Gao, Peng Zheng, Guohua Xiao, Chengshu Wang	14:30-15:00
S510TH09	Identifying microRNA genes from five important insect pests Fei Li, Yun Lu, Yang Sun	15:00-15:30
Coffee/Tea Break		15:30-16:00
S510TH10	Functional genomic analysis of chelicerate species Xuan Li	16:00-16:30
S510TH11	Genome scale evolutionary analysis for revealing the oldest bacterial organism on the Earth Yoshio Tateno	16:30-17:00

S511

Advances in symbiosis

Symposium Organizers: Heike Feldhaar (Germany), Boaz Yuval (Israel)

Room 14

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S511TH01	Bugs and drugs and speciation: The impact of mutualistic <i>Wolbachia</i> on <i>Drosophila</i> development, sexual behavior and symbiotic speciation Wolfgang J. Miller, Lee Ehrman, Daniela I. Schneider	09:00-09:30
S511TH02	Symbiont-mediated body colour change in aphids Tsutomu Tsuchida	09:30-10:00
S511TH03	Invited submission (session 5-6 Advances in symbiosis, talk 56-4): Evolution of symbiont-mediated antibiotic defense in solitary wasps Martin Kaltenpoth	10:00-10:30
Coffee/Tea Break		10:30-11:00

Code No.	Presentation Title Authors, Presenting author	Time
S511TH04	Insecticide resistance governed by endosymbiontic bacteria Yoshitomo Kikuchi, Masahito Hayashi, Takahiro Hosokawa, Atsushi Nagayama, Kanako Tago, Takema Fukatsu	11:00-11:30
S511TH05	The role of the innate immune system of the ant <i>Camponotus floridanus</i> in regulation and maintenance of its endosymbiont <i>Blochmannia</i> Heike Feldhaar, Carolin Ratzka, Roy Gross	11:30-12:00
S511TH06	Symbiont-mediated invasive success of the Harlequin ladybird <i>Harmonia axyridis</i> Andreas Vilcinskas, Henrike Schmidtberg, Kilian Staerck, Heiko Vogel	12:00-12:30
	Lunch	12:30-14:00
S511TH07	Prevalence of the symbiont <i>Cardinium</i> in <i>Culicoides</i> (Diptera: Ceratopogonidae) vector species Yuval Gottlieb, Neta Morag, Yanatan Saraya, Itamar Lensky, Eyal Klement	14:00-14:30
S511TH08	Repeated interactions and the evolution of dependence in insect symbiosis Fabrice Vavre	14:30-15:00
S511TH09	Tsetse-Wolbachia symbiotic associations Konstantinos Bourzis	15:00-15:30
	Coffee/Tea Break	15:30-16:00
S511TH10	Symbionts and fitness of Tephritid fruit flies Boaz Yuval	16:00-16:30
S511TH11	Identification of a new secondary symbiont in the whitefly <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae) Xiao-Li Bing, Jiao Yang, Shu-Sheng Liu, Xiao-Wei Wang	16:30-17:00

S512

Evolutionary genomics of social behavior

Symposium Organizers: Christina Grozinger (U.S.A.), Juergen Gadau (U.S.A.)

Room 16

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S512TH01	Molecular and cellular mechanisms of self-sacrificing gall repair by soldier nymphs in the social aphid Mayako Kutsukeke	09:00-09:30
S512TH02	The genome of the socially-polymorphic halictid bee, <i>Lasiosglossum albipes</i> Sarah D. Kacher, Guojie Zhang, Li Cai, Hapi E. Hoekstra, Naomi E. Pierce, Douglas Yu	09:30-10:00
S512TH03	Genomics of pheromone communication in honey bees Danael Malka, Loïse Elina, Grozinger Christina, Hetzler Abraham	10:00-10:15
S512TH04	100 million years of social evolution? Lessons learned from seven ant genomes Juergen Rudolf Gadau, Martin Helmkampf, Sanne Nygaard, Julien Roux, Daniel F. Simola, Chris R. Smith, Ganet Suen, Yannick Wurm, Christopher D. Smith	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S512TH05	What makes a termite queen: Genes involved in maintaining reproductive division of labour Johannes Gowler, Judith Ingrid Karb	11:00-11:15
S512TH06	Genomics of social behavior in fire ants John Wang	11:15-11:45
S512TH07	Sociogenomics of conflict and cooperation in fire ant queens Fabio Manfredini, Oksana Riba Groguez, Yannick Wurm, Laurent Keller, DeWayne D. Shoemaker, Christina M. Grozinger	11:45-12:15
S512TH08	Immunity in social insects: Insights from two <i>Bombus</i> genomes Seth Barribeau, Ben Sadd, Paul Schmid-Hempel	12:15-12:45
	Lunch	12:30-14:00

S513

Insects and biofuels

Symposium Organizers : Jianzhong Sun(China), Xuguo Zhou(U.S.A.)

Room 11

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
S513F01	Insects as micro-scale biomass conversion systems and diversity of their lignocellulolytic enzymes <i>Hirofumi Watanabe</i>	09:00-09:30
S513F02	A comprehensive dissection of lignocellulolytic enzymes in a wood-feeding cockroach, <i>Cryptocercus punctulatus</i> <i>Xianghui Li, Xuguo Zhou</i>	09:30-10:00
S513F03	Screening, expression and characterizing novel cellulases and hemi-cellulases from metagenomic libraries of termite guts <i>Ling Liu, Xing Yan, Qianfu Wang, Chanli Qian, Lei Zhang, Qian Wang, Yongping Huang, Zhihua Zhou</i>	10:00-10:30
Coffee/Tea Break		10:30-11:00
S513F04	Integration of the lignocellulolytic systems of insects to biofuels industries <i>Jianzhong Sun</i>	11:00-11:30
S513F05	Digestion from within: Improving biomass feedstock through engineering multifunctional lignocellulose degrading enzymes using termite and wood roach lignocellulases <i>Ling Yuan, Xuguo Zhou</i>	11:30-12:00
Lunch		12:30-14:00

S514

Genomics and functional genomics of Non-Drosophilid Diptera Insects

Symposium Organizers : Charalambos (Babis) Savakis(Greece), Giuliano Gasperi(Italy)

Room 11

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
S514F01	Profiling the mosquito transcriptome: Case studies of <i>Aedes aegypti</i> and <i>Anopheles gambiae</i> <i>Mariangela Bonizzoni, William Augustine Dunn, Corey L. Campbell, Ken E. Olson, Osvaldo Marinotti, Guiyun Yan, Anthony A. James</i>	14:00-14:30
S514F02	Application of functional genomics and transcriptomics to understanding lactation in the tsetse fly (<i>Glossina morsitans morsitans</i>) <i>Geoffrey Michael Attardo, Joshua Benoit, Veronika Michalkova, Serap Aksay</i>	14:30-15:00
S514F03	Transcriptome profiling of sexual maturation and mating in the Mediterranean fruit fly, <i>Ceratitis capitata</i> <i>Ludvik M. Gamutski, George Dimopoulos, Zhiyong Xi, Francesca Scolari, Paolo Gabriel, Paolo Siciliana, Anthony R. Clarke, Anna R. Malacrida, Giuliano Gasperi</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00
S514F04	Cell death genes and their use in Tephritid pest control <i>Marc P. Schetelig, Alfred M. Handler</i>	16:00-16:30
S514F05	Genome annotation and functional genomics of insect olfactory binding proteins <i>Jing-Hang Zhou, Linda Mary Field</i>	16:30-17:00
S514F06	The genome of <i>Clunio marinus</i> (Chironomidae, Diptera): A marine insect gives insights into circalunar and circadian clocks <i>Tobias S. Kalsner, Lam-Tung Nguyen, Tobias Neumann, Arndt Van Hoesele, Kristin Tessmar-Raible</i>	17:00-17:30

S 515

RNAi methods for controlling insects and their pathogens

Symposium Organizers : S.R. Palli(U.S.A.), Guy Smaghee(Belgium), Qili Feng(China)

Room 12

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S515F01	The mode of action of dsRNA for control of western corn rootworm (<i>Diabrotica virgifera virgifera</i>) larvae Renato Bolognesi, Parthasarathy Ramaseshadr, Ronald Flannagan, William Moad, Gerrit Segers	09:00-09:30
S515F02	RNAi-aided baculovirus resistance in the transgenic silkworm: Application to sericulture Javaregowda Nagaraju, E.V. Subbalak, C. Royer, S. Kanginakudru, A. Sahban Babu, V.V. Satyavathi, P.J. Raju, B. Mouchamp, G. Chavancy, P. Couble	09:30-10:00
S515F03	Identification of fecundity related genes of the brown plant hopper through RNA interference WenQing Zheng, Jianqiang Zhang, Yifan Zhao, Jing Chen, Rong Yu, Yuan He, Xiaolin Dong	10:00-10:30
Coffee/Tea Break		10:30-11:00
S515F04	RNAi for biological control Teruyuki Naito, Takahiro Ohde, Toshinobu Yaginuma	11:00-11:30
S515F05	RNAi of transcription factor BmPOUM2 for regulation of development of silkworm wing discs during metamorphosis Huimin Deng, Jialing Zhang, Yang Li, Sichun Zheng, Ling Liu, Lihua Huang, Qili Feng	11:30-12:00
S515F06	RNA interference to identify lethal genes involved in chitin metabolism of <i>Locusta migratoria</i> Jianzhen Zhang, Daqi Li, Xiaojian Liu, Yaping Guo, Enbo Ma, Kun Yan Zhu	12:00-12:30
S515F07	Embryo lethal genes for pest control Boqiang Xu, Anjiang Tan, Yongping Huang, Zhiqi Meng	12:30-13:00
Lunch		12:30-14:00

Section 6 Behavior and Chemical Ecology

Conveners: Le Kang(China), Meron P. Zalucki(Australia)

S 601

The prospect of manipulating herbivore-induced plant volatiles to improve the biological control of pest insects

Symposium Organizers: Ted Turlings(Switzerland), Junji Takabayashi(Japan), Yonggen Lou(China)

Room 17

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S601TU01	What plant-produced volatiles should we target to improve biological control? Ted Turlings	09:00-09:15
S601TU02	Selecting volatiles in the field to protect brassicaceous crops against the cabbage root fly, <i>Delia radicum</i> Anne-Marie Cortesero, Alan Kergunzeuil, Anne Le Ralec, Sébastien Dugravot	09:15-09:30
S601TU03	Induced plant semiochemical production to potentiate conservation biological control John Anthony Pickert	09:30-09:45
S601TU04	Developing new measures for rice pest management via chemical elicitor-based manipulation of volatile signals Yonggen Lou	09:45-10:00
S601TU05	How to improve a crop plant's ability to recruit of bodyguards? Marcel Dicke	10:00-10:15
S601TU06	Biological control using plant volatiles that attract specialist parasitic wasps of target pests Masayoshi Uefune, Junji Takabayashi	10:15-10:30
Coffee/Tea Break		10:30-11:00
S601TU07	Manipulation of belowground scents for enhanced plant protection Ivan Hiltpold, Bruce E. Hibbard, Ted C.J. Turlings	11:00-11:15
S601TU08	Relative importance of host-derived and plant-derived volatiles in the attraction of the larval parasitoids <i>Cotesia marginiventris</i> and <i>Microplitis rufiventris</i> Cristina Tama, Matthias Held, Ted Turlings	11:15-11:30
S601TU09	Comparison of production of volatiles emitted by greenhouse vegetables damaged by two-spotted spider mite and their attractiveness to the predator <i>Scolothrips longicornis</i> Neda Kheradpir, Mohammadreza Rezapour, Karim Kamali, Yaghoob Fathi-pour	11:30-11:45
S601TU10	Effects of inter- and intra-specific plant volatile interactions on aphids and ladybirds Veslemir Ninkovic, Inger Ahman, Iris Dahlén, Martin Kellner, Robert Glinwood	11:45-12:00
S601TU11	Identification of volatile compounds emitted by <i>Artemisia ordosica</i> and changes due to mechanical damage and weevil infestation Hui Zhang, Shixiang Zong	12:00-12:15
Lunch		12:30-14:00

S 602

Exploiting inducible plant defences in agriculture- possibilities and prospects

Symposium Organizers: Mike Furlong(Australia)

Room 17

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S602TU01	Inducible responses to herbivory affect diamondback moth oviposition patterns and negatively affect larval predation. Michael John Furlong, Rehan Silva	14:00-14:15
S602TU02	The chemical heterogeneity of plant defence is exploited by insects to avoid harm and find safe havens Bramwen W. Cribb, Lynda E. Perkins, Phillip B. Brewer, Jim Hanan, Myron P. Zalucki	14:15-14:30

Code No.	Presentation Title Authors, Presenting author	Time
S602TU03	Using transgenic <i>Arabidopsis</i> plants containing a luciferase reporter gene to map the spatial and temporal expression of genes involved in plant defence against herbivory. <i>Lynda Perkins, Bronwen Cribb, Philip B. Brewer, Jim Hanon, Myron P. Zalucki</i>	14:30-14:45
S602TU04	Salicylic acid signaling plays an important role in mediating indirect plant defense against whitefly <i>Peng-jun Zhang, Yao-bin Lu</i>	14:45-15:00
S602TU05	Effects of tomato plants responses induced by <i>Frankliniella occidentalis</i> on the behavioural response and host preference of <i>Bemisia tabaci</i> <i>Yaobin Lu, Xiaoxing Li, Weidi Li, Pengjun Zhang</i>	15:00-15:15
Coffee/Tea Break		15:30-16:00
S602TU06	Soil microbial community and plant-insect interactions <i>Kiran Ramesh Gadhave, Alan C. Gange</i>	16:00-16:15
S602TU07	Whitefly infestation elicits defense responses against bacterial pathogens on the leaf and root and belowground dynamic change of microflora in pepper <i>Chaong-Min Ryu</i>	16:15-16:30

S 603

Insect-host interactions: sensory and chemical profiles on host specificity
Symposium Organizers: Kye Chung Park(New Zealand), Chung Gyoo Park(Republic of Korea)

Room 18

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S603W01	The chemical ecology involved in cuckoo bumblebee offspring survival in host nest <i>Patrick Pierre Lhomme, Manfred Ayasse, Irina Valterova, Pierre Rasmont</i>	09:00-09:15
S603W02	Feeding and oviposition preference of <i>Frankliniella occidentalis</i> for crop and weed species commonly occurring in French bean fields in Kenya <i>Johnson Dunya Nyasani, Rainer Meyhofer, Subramanian Sevgan, Hans-Michael Poehling</i>	09:15-09:30
S603W03	Responses of <i>Riptortus pedestris</i> (Hemiptera: Alydidae) to host food and of <i>Apolytus spinolae</i> (Hemiptera: Miridae) to host volatiles <i>Eugene Lim, Hyun Sik Roh, Chung Gyoo Park</i>	09:30-09:45
S603W04	Study on maize pollen volatile compounds as potential attractant to blood fed and unfed female <i>An. arabiensis</i> under laboratory <i>Betelehem Wondwesen Mailu, Emsu Seyoum, Rickard Ignell, Sharon Hill</i>	09:45-10:00
S603W05	Attraction of female <i>Anopheles stephensi</i> mosquitoes to the spores of entomopathogenic and non-entomopathogenic fungi <i>Thomas Baker, Justin George, Simon Blanford, Nina Jenkins, Matthew Thomas</i>	10:00-10:15
S603W06	GC-EAD analyses of phytophagous insects to volatiles from different host plants <i>Li Chen</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S603W07	Olfactory receptor neurons and host specificity in phytophagous insects <i>Kye Chung Park</i>	11:00-11:15
S603W08	Response of female <i>Bactrocera papayae</i> (Diptera: Tephritidae) on five mango varieties <i>Agus Suisanto Surwano</i>	11:15-11:30
S603W09	Fatty acid amino acid conjugates diversification in lepidopteran caterpillars and physiological adaptation found in plants to the FACs <i>Neelki Maril, Naoko Yoshinaga</i>	11:30-11:45
S603W10	Gall aphids manipulate plant volatiles for defence against vertebrates <i>Michael Rostas, Moshe Inbar</i>	11:45-12:00
S603W11	Non-host volatiles to control bark beetles - A new forest protection method under development <i>Carl Rikard Unellus</i>	12:00-12:15
Lunch		12:30-14:00

S 604

New science for sustainable insect pest control based on chemical ecology
Symposium Organizers : John Pickett(United Kingdom), Mike Birkett(United Kingdom)

Room 17

August 22, Wednesday

Code No.	Presentation Title Authors. Presenting author	Time
S604W01	Delivering robust semiochemical based crop protection via the seed <i>John Anthony Pickett</i>	09:00-09:30
S604W02	Impacts of microbial associations on plant-insect <i>Consuelo M. De Moraes</i>	09:30-09:45
S604W03	Airborne interactions between different plant cultivars- Effects on aphids and their natural enemies <i>Robert Glinwood</i>	09:45-10:00
S604W04	Attract to kill: enhancing effectiveness of mobile and immobile biological control agents <i>Marcel Dicke</i>	10:00-10:15
S604W05	Exploiting chemical ecology of insect-plant and plant-plant interactions in developing novel IPM strategies for Africa <i>Zeyaur Khan, Charles Midega, Toby Bruce, Tany Hooper, John Pickett</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S604W06	New frontiers for manipulation of beneficial insects in crop protection: from chemical to multimodal communication. <i>Miguel Borges, Raul Alberto Laumann, Maria Carolina Blassali-Moraes</i>	11:00-11:15
S604W07	Sex pheromones of mirid bugs: Old problems and new solutions <i>David Robert Hall, Jerry V. Cross, Michelle Fountain, Joe Sarfo, Colin Campbell</i>	11:15-11:30
S604W08	A first step towards the control of a major root pests: Using chemical ecology to understand why it is a pest <i>Ted Turlings</i>	11:30-11:45
S604W09	Elucidating the chemical ecology of belowground plant-plant communication <i>Emilio Guerinier, Pasquale Cascone, Luigi Rodice, Sarah Y. Dewhurst, Janet Martin, John A. Pickett, Michael A. Birkett</i>	11:45-12:00
S604W10	Elicitation of plant defence by small lipophilic molecule activators: Understanding underlying mechanisms and towards use in crop protection <i>Michael A. Birkett</i>	12:00-12:15
	Discussion	12:15-12:30
Lunch		12:30-14:00

S 605

Chemically-mediated host plant selection, a complex and challenging topic
Symposium Organizers : Silvia Dorn(Switzerland), Jianghua Sun(China)

Room 17

August 23, Thursday

Code No.	Presentation Title Authors. Presenting author	Time
S605TH01	Patterns of attraction of herbivore pests to plant volatiles <i>Cesar Rodriguez-Saona, Lucia Szendrei</i>	09:00-09:15
S605TH02	Influence of mating on responses of <i>Helicoverpa armigera</i> moths to synthetic plant volatiles <i>Alice Del Socorro, Peter Gregg</i>	09:15-09:30
S605TH03	How fruit moths recognize host plant odors <i>Silvia Dorn, Adriana Najjar-Rodriguez, Jaime Pinero</i>	09:30-09:45
S605TH04	Microbial odors mediate host finding in insect herbivores <i>Peter Witzgall</i>	09:45-10:00
S605TH05	Attacking behavior and its communication of an invasive bark beetle <i>Dendroctonus valens</i> <i>Zhudaog Liu, Jianghua Sun</i>	10:00-10:15
S605TH06	Do novel fungal genotypes drive the success of an invasive bark beetle/pine host/fungus complex? <i>Min Lu, Jiang Hua Sun</i>	10:15-10:30

Coffee/Tea Break		10:30-11:00
S605TH07	The role of kairomones in the mating sequence of cerambycid beetles <i>Jacob D. Wickham</i>	11:00-11:15
S605TH08	Chemo-ecological risk assessment of European beech (<i>Fagus sylvatica</i>) stands along a precipitation gradient in Germany <i>Christine Rachow, Martin Gabriel, Stefan Schutz</i>	11:15-11:30
S605TH09	Direct and indirect effects of a Tospovirus on the behavior and biology of <i>Frankliniella fusca</i> , a Tospovirus vector <i>Rajagopalbabu Srinivasan, Anita Shrestha, David Riley, Albert Cullbreath</i>	11:30-11:45
S605TH10	How flowers attract pollinator beetles in annonaceous fruit trees? <i>Maria Tsukada, Keisuke Nagasawa, Toshihiko Akino</i>	11:45-12:00
Lunch		12:30-14:00

S 606

Mechanisms of insect odorant detection

Symposium Organizers : Walter Leal(U.S.A.), Chen-Zhu Wang(China), Yukio Ishikawa(Japan)

Room 17

August 23, Thursday

Code No.	Presentation Title Authors: Presenting author	Time
S606TH01	The Molecular Making of the Insect's Olfactory System <i>Walter S. Leal</i>	14:00-14:30
S606TH02	Odorant activation of insect olfactory receptors is inhibited by antagonism of the odorant receptor co-receptor subunit <i>Charles W. Luetjens, Sisi Chen</i>	14:30-14:45
S606TH03	Evolution of sex pheromone production and reception systems in <i>Ostrinia</i> moths <i>Yukio Ishikawa</i>	14:45-15:00
S606TH04	Peripheral coding of sex pheromone blends with reverse ratios in two <i>Helicoverpa</i> species <i>Chen-Zhu Wang, Han Wu, Chao Hou, Xiao-Jing Jiang, Dan-Dan Zhang, Ling-Qiao Huang</i>	15:00-15:30

Coffee/Tea Break

15:30-16:00

S606TH05	A peripheral 'memory' in the <i>Drosophila</i> olfactory system <i>Bill S. Hansson, Merid Getahun, Shannan B. Olson, Sofia Lavista-Llanos, Vardanush Saigyan, Kerstin Possemann, Dieter Wicher</i>	16:00-16:30
S606TH06	Molecular genetic studies on the <i>split</i> locus controlling pheromone preference in the silkworm, <i>Bombyx mori</i> <i>Toru Shimada, Tsuguru Fujii, Huabing Wang, Takeshi Fujii, Hiroaki Abe, Akio Ohnuma, Yukio Ishikawa, Takashi Kiuchi, Susumu Katsuma</i>	16:30-16:45
S606TH07	Coevolution of moth pheromone production and response in two model systems <i>Christen Jan Lafstedt, Dan-Dan Zhang, Jean-Marc Loissance</i>	16:45-17:00
S606TH08	Working Range of Stimulus Flux Transduction Determines Dendrite Size and Relative Number of Pheromone Component Receptor Neurons in Moths <i>Thomas Baker</i>	17:00-17:30

S 607

Semiachemical application: From sex to alarm

Symposium Organizers : Alex Ilchev(Australia), Man-Yeon Choi(U.S.A.), Robert VanderMeer(U.S.A.)

Room 14

August 24, Friday

Code No.	Presentation Title Authors: Presenting author	Time
S607F01	A novel control strategy against an invasive Argentine ant population by combining an insecticidal bait with a synthetic trail pheromone component <i>Sadahiro Totsuki, Shun Suzuki, Eiriki Sunamura, Hironori Sakamoto, Koji Nishizue, Mamoru Terayama, Yukio Ishikawa, Hideaki Mori, Toshiro Kishimoto, Yasuburo Utsumi, Takehiko Fukumoto</i>	09:00-09:15

Code No.	Presentation Title Authors, Presenting author	Time
S607F02	Control of <i>Riptortus pedestris</i> : Pheromone synthesis and trap development <i>Junheon Kim, Kwang-Sik Cho, Bu-Kaun Chung, Chung Gyoa Park</i>	09:15-09:30
S607F03	Success and fail in monitoring two sibling species of genus <i>Matsumuraesia</i> (Tortricidae) with same sex pheromone components in a same field <i>Jin Kyo Jung, Ba Yoon Seo, Jum Roe Cho, Chang-Gyu Park, Ki Hong Yum</i>	09:30-09:45
S607F04	Sex pheromone blends for monitoring clearwing moths in Korean orchards <i>Chang Yeol Yang, Sung Jang Kim, Myoung Rae Cho</i>	09:45-10:00
S607F05	Sex pheromone composition of <i>Ascotis selenaria</i> (Lepidoptera: Geometridae) and its regional variation in Korea <i>Kyungsan Choi, Young Mi Park, Kyung Hee Choi, Dong Hwan Kim, Dong Soan Kim</i>	10:00-10:15
S607F06	Fire ant alarm pheromone and application <i>Man-Yeon Choi, Robert K. Vander Meer</i>	10:15-10:30
S607F07	Effect of minor components on mating disruption of light brown apple moth <i>David Maxwell Suckling, Tes Sullivan, Ld Stringer, Rc Butler, Dm Campbell, A. Twidle, WJ. Allen, A.Mafia Neto, AM. El-Sayed</i>	10:30-10:45
Coffee/Tea Break		10:30-11:00

S 608

**Botanically-derived bioactive compounds:
Insecticides, repellents, attractants and antifeedants**

Symposium Organizers: Robert Spooner-Hart(Australia),

Young-Joon Ahn(Republic of Korea)

Room 19

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S608F01	Identification and assessment of a botanical termiticide from <i>Eremophila mitchellii</i> <i>Robert N. Spooner-Hart, David N. Leach, Karen Beattie, Albert H. Bosta, Amanda Reichelt-Brushett, Aaron Pallack</i>	14:00-14:30
S608F02	Combined neem oil and eucalyptus oil lotion: In vitro and in vivo efficacy study for the treatment of head lice <i>Don Brushett, Prasut Thaworncharat, Wrenawan Amansak, Pakpimai Mahannop, Carol Morris</i>	14:30-15:00
S608F03	Plant essential oils as repellents for agricultural pest management <i>Murray B. Isman, Claudio da Camara</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00
S608F04	Bioactivity of extracts from <i>Tripterygium wilfordii</i> against insects <i>Xuping Shentu, Zheng Ma, Xiaoping Yu</i>	16:00-16:30
S608F05	Effect of guava fruit surface substances on oviposition behavior of oriental fruit fly (<i>Bactrocera dorsalis</i> Hendel) <i>Kai-ge Chen, Xinnian Zeng</i>	16:30-17:00
S608F06	Development and use of a natural plant extract (semiochemical) for the management of pests and beneficial insects on cotton cropping systems in Australia <i>Robert Kofi Mensah, Nick Watts, Alison Young</i>	17:00-17:30

Section 7 Insect related Interactions at a Multi-trophic Ecosystem

Conveners : Junji Takabayashi(Japan), Jeremy McNeil(Canada)

S 701

Phloemophagous insects: Strategies and impacts on plants

Symposium Organizers : Philippe Giordanengo(France), Christine Coustau(France), Charles Vincent(Canada)

Room 18

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S701M01	Electrical penetration graphs during brief phloem punctures by aphid stylets <i>Freddy Tjallingii</i>	09:00-09:30
S701M02	Role of immune regulators in controlling aphid / plant interactions <i>Gerakline Dubreuil, Philippe Giordanengo, Didier Crochard, Emeline Delboury, Antonin Schmitz, Jean-Christophe Simon, Christine Coustau</i>	09:30-09:45
S701M03	Behaviour and physiology of aphids related to potato resistance <i>Yvan Pelletier, Julien Pompon</i>	09:45-10:00
S701M04	Unravelling the mechanisms of resistance to bluegreen aphid and pea aphid in the model legume <i>Medicago truncatula</i> <i>Karam Singh, Lars Kampthuis, Sumin Guo, John Klingler, Lingling Gao, Owain Rhys Edwards</i>	10:00-10:15
S701M05	Plant vigour and amino acid content and host utilisation by free-living eucalypt psyllids <i>Martin Steinbauer</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S701M06	Use of Fluorescence, a novel technique to determine reduction in feeding of phloemophagous insects when exposed to Cyazypyr TM and other insecticides <i>Juan Manuel Alvarez, Rachel A. Cameron, Edward B. Long, Hector E. Portillo, Jason D. Scott, J. Billy Annon</i>	11:00-11:15
S701M07	Resistance of sugarcane, <i>Saccharum</i> spp., to the sugarcane aphid, <i>Melanaphis sacchari</i> (Zehntner) (Hemiptera: Aphididae), the vector of Sugarcane yellow leaf virus <i>Benjamin Fartek, Samuel Nibouche, Patrick Turpin, Laurent Costet, Bernard Reynaud</i>	11:15-11:30
S701M08	Cross talks between plant and insects can be perceived by infecting viruses: Putative ecological consequences <i>Stephane Blanc, Aurelie Bok, Alexandre Martiniere, Martin Drucker</i>	11:30-11:45
S701M09	Characterising interactions between the common brown leafhopper <i>Orosius orientalis</i> and selected nutritional sources <i>Piotr Trebicki, Freddy Tjallingii, Rob Harding, Brendon Rondani, Kevin S. Powell</i>	11:45-12:15
S701M10	Impact of leafhoppers that vector phytoplasma in oilseed crops in the Canadian prairies <i>Chrystel Olivier, Brian Galka</i>	12:15-12:30
Lunch		12:30-14:00
S701M11	Insect vectors of plant pathogens threatening agricultural production in Sudan <i>Abdalla Abdelrahman Satti</i>	14:00-14:15
S701M12	Investigating the impact of elevated CO2 on wheat, Barley yellow dwarf virus and its aphid vector <i>Rhopalosiphum padi</i> <i>Piotr Trebicki, Angela Freeman, Rebecca Vandegheer, Kevin Steven Powell, Glenn Fitzgerald, Nilsa A. Bosque-Perez, Jo Luck</i>	14:15-14:30
S701M13	Vegetable oil for PVY control <i>Arnaud Armelia, Mounia Khelifa, Soïene Garson, Christine Rusterucci, Josselin Penisson, Philippe Giordanengo</i>	14:30-14:45
S701M14	Aphids acquired symbiotic genes from bacteria <i>Atrushi Nakabachi</i>	14:45-15:00
Coffee/Tea Break		15:30-16:00

S 702

Multitrophic interactions under changing environmental conditions
Symposium Organizers : Jarmo Holopainen(Finland), Stefano Colazza(Italy)

Room 11

August 20, Monday

Code No.	Presentation Title Authors. Presenting author	Time
	Opening & Welcoming Remarks <i>Jarmo Holopainen</i>	09:00-09:15
5702M01	Predicting the effects of climate change on mealybugs and their natural enemies in grapevines in Australia <i>Linda Thomson, Ary Hoffmann</i>	09:15-09:45
5702M02	Trophic interactions along climatic gradients with <i>Neodiprion sertifer</i> as a model species <i>Ida Koliberg, Helena Bylund, Christer Bjorkman</i>	09:45-10:15
5702M03	Climate change impact on extrinsic and intrinsic competition between egg parasitoids <i>Antonino Cusumano, Ezio Peri, Stefano Colazza</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
5702M04	Efficiency of volatile multitrophic signals under changing environmental conditions <i>James Blande</i>	11:00-11:30
5702M05	Invaders, parasitoids and cyclic resident dynamics - A fatal equation? <i>Tea Ammune, Tero Klemola, Kalle Parvinen</i>	11:30-12:00
5702M06	Constant versus fluctuating temperatures in the interactions between <i>Plutella xylostella</i> and its larval parasitoid <i>Diadegma insulare</i> <i> Md.Habibullah Bahar, Juliana Soroka, Lloyd Dasdol, Owen Olfert</i>	12:00-12:15
	Closing Remarks <i>Stefano Colazza</i>	12:15-12:30
	Lunch	12:30-14:00

S 703

Next generation study of multitrophic interactions
Symposium Organizers : Wilhelm Boland(Germany), Gen-ichiro Arimura(Japan)

Room 18

August 21, Tuesday

Code No.	Presentation Title Authors. Presenting author	Time
5703TU01	Host plant shift caused loss of a biosynthetic enzyme in larvae of <i>Chrysomela lapponica</i> (Chrysomelinae) <i>Wilhelm Boland, Roy Kirsch</i>	09:00-09:30
5703TU02	Precise RNAi mediated silencing of metabolic active proteins in defense secretions of juvenile leaf beetles <i>Anjle Burse, Peter Rathfeld, Rene Roberto Bodemann, Magdalena Stock, Natalie Welsch, Maritta Kunert, Wilhelm Boland</i>	09:30-10:00
5703TU03	Effects of floral volatiles on plant indirect defense against herbivory: Flowering transgenic torenia plants as a new tool <i>Takeshi Shimoda</i>	10:00-10:15
5703TU04	Microorganisms in spider mites (<i>Tetranychus urticae</i>) regulate ecological interactions with lima bean plants <i>Riko Ozawa</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
5703TU05	Interactions between tomato volatile organic compounds and aphid behaviour <i>Emilio Guerrieri, Pasquale Cascone, Luigi Iodice, Maria Cristina Digilio</i>	11:00-11:30
5703TU06	Effects of plant-plant signaling on the colonization and the diversity of arthropods on willow plants <i>Kinuya Yoneya, Junji Takabayashi</i>	11:30-11:45
5703TU07	Tritrophic interactions among tospovirus, thrips and Arabidopsis <i>Hiroshi Abe, Yasuhiro Tomizaka, Shigemi Seo, Tamito Sakurai, Soichi Kugimiya, Takeshi Shimoda, Shinya Tsuda, Masamoto Kobayashi</i>	11:45-12:00
5703TU08	Contribution of metabolomics and transcriptomics to understanding of plant defense against herbivores <i>Ivan Galit, Ian T. Baldwin</i>	12:00-12:30

S 704

Plant-mediated effects on the ecology and evolution of multitrophic interactions
Symposium Organizers : Raul Medina(U.S.A.), Betty Benrey(Switzerland), David Giron(France)

Room 20

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S704W01	Ecological and evolutionary aspects of indirect interaction webs <i>Takayuki Ohgushi</i>	09:00-09:30
S704W02	Root feeders and above-ground multi-trophic interactions <i>Scott Nicholas Johnson</i>	09:30-09:45
S704W03	Breaking down plant defenses: Cross-talk mediating facilitation in inter-guild interactions <i>Roxana Soler Gambareno</i>	09:45-10:00
S704W04	Localized plant induction: Impact on insect fitness and disease resistance <i>Bana M. Sarfraz, Jenny S. Cory, Judith H. Myers</i>	10:00-10:15
S704W05	Coping with a senescing environment: When insect reveal to plants the secret of eternal youth <i>David Giron, Wilfried Kalses, Melanie Bady, Franck Dedeine, Carlos Lopez-Vaamonde, Gaëlle Gievarre, Jerome Casas, Elisabeth Huguet</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S704W06	Biodiversity drives trait evolution of a community member in an indirect interaction web <i>Shunsuke Utsumi, Yoshino Ando, Heikki Roininen, Jan-ichi Takahashi, Takayuki Ohgushi</i>	11:00-11:15
S704W07	Sequential speciation amplifies biodiversity across a community of insect parasites <i>Glen R. Hood, Andrew A. Forbes, Thomas Powell, Scott P. Egan, Jeffrey L. Feder</i>	11:15-11:30
S704W08	Do plant-mediated interactions among herbivores affect parasitoid performance and genetic population structure? <i>Betty Benrey, Johnathan Hernandez-Cumplido, Jennifer Shlichta</i>	11:30-11:45
S704W09	The role of host-plant and bacteria species in the genetic differentiation of herbivorous insects <i>Raul F. Medina</i>	11:45-12:00
Lunch		12:30-14:00

S 705

Evolutionary ecology and biosystematics of gall-inducing arthropods and their associates

Symposium Organizers : Man-Miao Yang(Taiwan), Makoto Tokuda(Japan)

Room 10

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S705F01	Host feeding by a gall-inducing insect improves the performance of offspring <i>Makoto Tokuda, Keiichiro Matsukura, Shun Kumashiro, Masayo Matsumura</i>	09:00-09:30
S705F02	Gall-inducing ability of the maize orange leafhopper <i>Cicadulina bipunctata</i> and barley chromosomes related to the resistance and susceptibility to the gall induction <i>Shun Kumashiro, Keiichiro Matsukura, Kanako Kawaura, Masayo Matsumura, Yasunari Ogihara, Makoto Tokuda</i>	09:30-09:45
S705F03	Progress on gall midges (Diptera: Cecidomyiidae) in China <i>Kelong Rao, Wenjun Bu</i>	09:45-10:00
S705F04	Host specialisation, diversity and community structure of galling insects in a Papua New Guinean lowland rainforest <i>Philip Butterill, Vojtech Novotny</i>	10:00-10:15
Discussion		10:15-10:30
Coffee/Tea Break		10:30-11:00

Code No.	Presentation Title Authors, Presenting author	Time
S705F05	Carotenoids, lateral gene transfer and gall midges <i>Cassidy Cobbs, John Strydom, Patrick Abbot</i>	11:00-11:30
S705F06	Discovery of gall wasps (Hymenoptera: Cynipidae) inducing galls on the strictly Asian subgenus <i>Cyclobalanopsis</i> of the genus <i>Quercus</i> (Fagaceae) <i>Tatsuya Ake, Nakatada Wachi, Yoshihisa Abe</i>	11:30-11:45
S705F07	Inferring speciation history of the <i>Andricus mukaigawae</i> complex (Hymenoptera: Cynipidae) based on nuclear DNA and mitochondrial DNA Data <i>Nakatada Wachi, Yoshihisa Abe, Nobuyuki Inomata, Hidenori Tachida</i>	11:45-12:00
S705F08	A koinobiont parasitoid manipulates its host cecidomyiid to modify gall morphology to avoid hyperparasitism <i>Tomohiro Fujii, Kazunori Matsuo, Junichi Yukawa, Yoshihisa Abe, Makoto Tokuda</i>	12:00-12:15
	Discussion	12:15-12:30
	Lunch	12:30-14:00
S705F09	Phylogeny and evolution of gall morphology in eriosomatine aphids <i>Masakazu Sano, Shin-ichi Akimoto</i>	14:00-14:15
S705F10	Gall shape variation and host specificity in relation to species identity in a complex galling midge group <i>Daphnephila</i> (Diptera: Cecidomyiidae) on <i>Machilus</i> spp. (Lauraceae) in Taiwan <i>Man-Miao Yang, Tung-Chuang Chiang, Gene-Sheng Tung, Makoto Tokuda, Junichi Yukawa</i>	14:15-14:30
S705F11	Sexual isolation between two intraspecific groups of <i>Hartigiola fagigalli</i> (Diptera: Cecidomyiidae) that induce different types of leaf gall on <i>Fagus crenata</i> (Fagaceae) <i>Misako Mishima, Shinsuke Sato, Kiyoshi Tsuda, Junichi Yukawa</i>	14:30-15:00
S705F12	Olfactory cues in gall midge speciation <i>Tina Boddum, Sharon Hill, Bill S. Hansson, Göran Birgersson, Bela Molnar, Ylva Hultine</i>	15:00-15:15
S705F13	Electrophysiological screening to investigate gall midge host plant recognition <i>Peter Bela Molnar, Tina Boddum, Göran Birgersson, Ylva Hultine, Bill S. Hansson</i>	15:15-15:30
	Coffee/Tea Break	15:30-16:00

S 706

Insects in forest litter and woody debris

Symposium Organizers: John Spence(Canada), Anne Oxbrough(Canada)

Room 16

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S706F01	Ground-dwelling arthropod assemblages following variable retention harvesting: Is green tree retention effective to maintain biodiversity? <i>Jaime H. Pinzon, Stephane Bourassa, John R. Spence</i>	09:00-09:30
S706F02	Can intensively managed plantation forests support a diverse arthropod fauna? <i>Anne Oxbrough, Sandra Irwin, Thomas C. Kelly, John O'Malloran</i>	09:30-09:45
S706F03	Tropical trees influence trophic structure but not diversity of litter arthropod communities <i>David Andres Donoso, Mary R. Johnston, Natalie A. Cloy, Michael E. Kaspari</i>	09:45-10:00
S706F04	Conservation of saproxylic beetles and living tree retention patch size in boreal white spruce forest <i>Seung-II Lee, John Spence, David Langor</i>	10:00-10:15
S706F05	Soil collembolans of commercial forests plantations of Colombia: Response to plantation age and climatic regime <i>Astrana Ramos, Olga P. Pinzon, John Diaz</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S706F06	Opening the black box: The structure of belowground food webs <i>Stefan Scheu</i>	11:00-11:15
S706F07	Under which conditions does retention harvesting support boreal ground-dwelling forest arthropods? <i>Matti Jussä Kalliväli</i>	11:15-11:30

Code No.	Presentation Title Authors: Presenting author	Time
S706F08	Substrate diversity promotes species diversity in saproxylic beetles <i>Joakim Hjältén, Fredrik Stenbacka, Roger Pettersson, Therese Johansson, Kjell Danell, John P. Bail, Heloise Gibb, Jacek Hilszczański</i>	11:30-11:45
S706F09	Survey on distribution and species diversity of oak gall wasps (Hymenoptera: Cynipidae) species in West-Azerbaijan, Iran <i>Abbas Hosseinzadeh, Zahra Hashemi Khabir, Negar Alioghli, Nouraddin Shayesteh</i>	11:45-12:00
S706F10	Changing climate associated with homogenization of forest assemblages of boreal ground beetles (Coleoptera: Carabidae) <i>John R. Spence, Stéphane Bourassa</i>	12:00-12:30
Lunch		12:30-14:00

Section 8

Pesticides, GM Crops, Resistance and Toxicology

Conveners: Si Hyeock Lee (Republic of Korea), Isaac Ishaaya (Israel)

S 801

Advanced technologies for managing insect pests

Symposium Organizers: Isaac Ishaaya (Israel), Suba Reddy Palli (U.S.A.), Michel Cusson (Canada)

Room 9

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S801M01	Juvenile hormone biosynthetic enzymes as targets for insecticide discovery <i>Michel Cusson, Stephanie E. Sen, Tetsuo Shinoda</i>	14:00-14:30
S801M02	Plant secondary compounds from <i>Leucaena leucocephala</i> , <i>Alpinia zerumbet</i> and <i>Bidens pilosa</i> <i>Shinkichi Tawata</i>	14:30-15:00
S801M03	Design of molting hormone agonists <i>Yoshiaki Nakagawa</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00
S801M04	Ligand-gated chloride channels: Important sites for developing novel insecticides <i>Yoshihisa Oino</i>	16:00-16:30

S 802

Insecticide resistance: Mechanism and management

Symposium Organizers: Ian Denholm (United Kingdom), Ralf Nauen (Germany)

Room 9

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S802M01	Genetic mapping of etoxazole resistance mutations in <i>Tetranychus urticae</i> provides new insights in the mode of action of chitin synthesis inhibitors <i>Thomas Van Leeuwen, Peter Demaeght, Edward J. Osborne, Luc Tirry, Richard M. Clark</i>	14:00-14:15
S802M02	Frequencies of the M918I, T929I and L1014F mutations in the sodium channel of the diamondback moth in China, Thailand and Japan <i>Shoji Sonoda</i>	14:15-14:30
S802M03	Resistance to diamide insecticides in the diamondback moth in China <i>Yidong Wu, Xingling Wang, Yihua Tang, Shuwen Wu</i>	14:30-14:45
S802M04	Dynamics of insecticide resistance in the peach-potato aphid, <i>Myzus persicae</i> <i>Ian Denholm, Olana Cox, Stephen Foster, Martin Williamson</i>	14:45-15:00
S802M05	Mechanisms of resistance to neonicotinoid insecticides in the peach-potato aphid, <i>Myzus persicae</i> <i>Allan Mirel Puinean, Martin Williamson, Stephen Foster, Lin Field, Ian Denholm, Neil S. Millar, Chris Bass</i>	15:00-15:15
S802M06	Neonicotinoid resistant <i>Myzus persicae</i> demonstrate an increased ability to locate untreated plant tissue compared to a susceptible clone <i>Lucy Fray, Eddie McIndoe, Russell Slater, Glen Powell, Simon Leather, Rob Lind</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S802M07	Activities of the Insecticide Resistance Action Committee (IRAC), with particular emphasis on Asia <i>Ralf Nauen</i>	16:00-16:15
S802M08	Identification of imidacloprid resistance mechanism in the cotton aphid, <i>Aphis gossypii</i> (Hemiptera: Aphididae) <i>Ju Il Kim, Yoo Ree Jo, Min Kiwon, Jeom Saon Kim, Young Gyu Lee, Siyoung Kim, Si Hyeock Lee</i>	16:15-16:30
S802M09	Resistance situation against neonicotinoid insecticides in the brown planthopper, <i>Nilaparvata lugens</i> <i>Masaya Matsumura, Sachio Morimura, Akira Otsuka</i>	16:30-16:45

Code No.	Presentation Title Authors, Presenting author	Time
S802M10	Neonicotinoid and spinosad resistance in <i>Musca domestica</i> : From bioassay to transcriptome Michael Kristensen, Mette D.K. Markussen, Dorthe Hejlskov	16:45-17:00
S802M11	Dynamics and mechanisms of insecticide resistance in European populations of the pollen beetle, <i>Meligethes aeneus</i> Christoph T. Zimmer, Ralf Nauen	17:00-17:15
S802M12	A nicotinic acetylcholine receptor point mutation associated with resistance to spinosad in western flower thrips (<i>Frankliniella occidentalis</i>) Neil S. Millar, Alin M. Purnean, Stuart J. Lansdell, Toby Collins, Pablo Biezka	17:15-17:30

S 803

The effects of GM crops on non-target organisms

Symposium Organizers: Jörg Romeis(Switzerland), Richard L. Hellmich(U.S.A.),
Anthony M. Shelton(U.S.A.)

Room 18

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S803TU01	Risk assessment of genetically-modified maize debris on stream-inhabiting arthropods William O. Lamp, Galen P. Dively, Christopher M. Swan	14:00-14:15
S803TU02	Genetically modified crops and aquatic ecosystems: Considerations for environmental risk assessment and non-target organism testing Kerl Carstens	14:15-14:30
S803TU03	Non-target effects of GM crops: A global synthesis Steven E. Naranjo, Joerg Romeis	14:30-14:45
S803TU04	Evaluation of Genuity® Bollgard III® cotton effects on non-target organisms Andrew Davies, Mary Whitehouse, Lewis Wilson, Geoff Baker	14:45-15:00
S803TU05	Bioassay of cry1 ab protein to non-target Lepidoptera, the great egg fly, <i>Hypoimnna bolina philippensis</i> Butler (Nyphalidae: Lepidoptera) Bonifacio Fallorin Cayabyab, Edwin P. Alcantara, Augusto C. Sumalde, Wilma R. Custerio, Blair Siegfried, Josemar M. Belen, Ma, Charisma Molenab, Karen Ardez	15:00-15:15
S803TU06	A comparison of canopy-dwelling non-target arthropod communities in open pollinated Bt and non-Bt eggplant in Three multi-location trial sites in Luzon Island, Philippines Randolph Candano, Desiree Hautea, Marlo Navasera, Joseph Manjopol, Maria Dulce Mostoles, Randy Hautea	15:15-15:30
Coffee/Tea Break		15:30-16:00
S803TU07	Effects of GM crops on nontarget organisms: Field studies in India Mukesh Kumar Dhillon, Hari C. Sharma	16:00-16:15
S803TU08	Effects of Cry1Ac Rice on <i>Propylea japonica</i> (Coleoptera: Coccinellidae), <i>Pirata subpiraticus</i> (Araneae: Lycosidae) and <i>Pachygnatha clercki</i> (Araneae: Tetragnathidae) Sue Yeon Lee, Seung Tae Kim, Jong Kook Jung, Joen-Ho Lee	16:15-16:30
S803TU09	Assessing the impact of GE plants on natural enemies? Testing practices with <i>Coleomegilla maculata</i> Yunhe Li, Joerg Romeis, Anthony M. Shelton, Yula Peng	16:30-16:45
S803TU10	Assessing the impact of bruchid-resistant transgenic legumes on parasitoids Joerg Romeis, Christoph Luthi, Fernando Alvarez-Aragame	16:45-17:00
S803TU11	Developing a framework for assessing the risks associated with RNAi crops on non-target organisms Xiguo Zhou, Blair Siegfried	17:00-17:15

S 804

Countermeasure Strategies for Insect Resistance to Insecticides

Symposium Organizers : Tetsuo Saito(Japan), Young-Joon Ahn(Republic of Korea)

Room 7

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S804W01	A strategy on countermeasure against further development of pyrethroid resistance of vector mosquitoes: Minimizing the use of pyrethroids by synergistic actions of formamidines and by introducing new <i>Fumio Matsumura</i>	09:00-09:30
S804W02	Integrated measures for managing resistance for major pests in Malaysian crops <i>Sivapragasam Annamalai, Lake Wei Hong</i>	09:30-10:00
S804W03	Mechanisms of negatively correlated cross-resistance between malathion and fenvalerate in the brown plant hopper, <i>Nilaparvata lugens</i> Stål <i>Hayato Teshima, Tetsuo Saito, Tadashi Miyata</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S804W04	An ace-1 expression system for monitoring insect acetylcholinesterase activity: With a special reference to carbofuran resistance in rice stem borer, <i>Chilo suppressalis</i> Walker <i>Cheng Chang, Xin-Yi Huang, Shu-Mei Dai</i>	11:00-11:30
S804W05	Resistance to mating disruption, a pheromone-based pest management tool, in the smaller tea tortrix, <i>Adoxophyes honmai</i> Yasuda <i>Jun Tabata</i>	11:30-12:00
S804W06	The ultimate strategy on countermeasure for insect resistance to insecticide <i>Tetsuo Saito</i>	12:00-12:30
	Lunch	12:30-14:00

S 805

RNAi: Applications and considerations

Symposium Organizers : William J. Moar(U.S.A.), Anthony M. Shelton(U.S.A.)

Room 7

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S805TH01	Global registration considerations for in planta RNA-mediated control of insect pests <i>Christina Lawrence</i>	09:00-09:15
S805TH02	RNAi products platform for invertebrates' health and targeted pest control <i>Eyal Ben-Chanoch, Gal Yarden</i>	09:15-09:45
S805TH03	Developing species-specific RNAi technologies to control insect pests <i>Steve Whyard, Aditi Singh, Alison Partridge, Andrew Turko</i>	09:45-10:15
S805TH04	Application of RNAi toward insecticide resistance <i>Fang Zhu, Subba Reddy Palli</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S805TH05	Promoted transmission of silencing signals from plant to insect midgut by proteases <i>Ying-Bo Mao, Xue Xue-Yi, Xiao-Yuan Tao, Dian-Yang Chen, Xiao-Ya Chen</i>	11:00-11:30
S805TH06	Effective RNAi targets screening strategy and convenient dsRNA delivery way for Lepidoptera insect pest control <i>Xuexia Miao, Hao Zhang, Haichao Li, Ruobing Guan, Yubing Wang</i>	11:30-12:00
S805TH07	Controlling corn rootworm with dsRNA: Efficacy, specificity and IRM considerations <i>William Moar, Pamela Bachman, Thomas Clark, Renata Bolognesi, Gerrit Segers, Graham Head</i>	12:00-12:30
	Lunch	12:30-14:00

Room 2

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S806F01	Phytochemical variation: A limiting factor in pesticidal plant applications for small holder farmers in Africa Philip C. Stevenson, Stephen P. Nyiranda, John F. Komanuka, Steven R. Belmain	09:00-09:30
S806F02	Variation between individuals in odour responses in <i>Callosobruchus maculatus</i> : Effects of age, sex and morph Sarah Elizabeth Joan Arnold, Philip C. Stevenson, Steven R. Belmain	09:30-09:45
S806F03	Optimisation of acaricidal activity of pesticidal plants <i>Lippia javanica</i> (Burm F.) Spreng and <i>Maerua decumbens</i> (Brongn) Dewolf against cattle ticks in Zimbabwe Brighton Mvumi	09:45-10:00
S806F04	Larvicidal and acetylcholinesterase inhibitory activities of <i>milletia pinnata</i> seed constituents toward insecticide-susceptible <i>Culex pipiens pallens</i> and <i>Aedes aegypti</i> and wild <i>Aedes albopictus</i> Haribalan Perumalsamy, Jun-Ran Kim, Murugan Kadarkarai, Young-Joon Ahn	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S806F05	Insecticidal potential of plants in the Eurasian region - new opportunities for the development of botanical insecticides Roman Pavela	11:00-11:30
S806F06	Recent trends in the use of botanical insecticides in North America Murray B. Isman	11:30-12:00
	Lunch	12:30-14:00

Section 9 Conservation, Biodiversity and Climate Change

Conveners: Ke Chung Kim(U.S.A.)

S 901

Insect biodiversity and global IPM challenges in climate change

Symposium Organizers: Hari C. Sharma(India)

Room 17

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S901M01	Effect of climate change on the geographical distribution and abundance of insect pests <i>Jurgen Eberhard Kroschel, Henri Tonnang, Henry Juarez, Marc Späthler</i>	09:00-09:15
S901M02	Effects of climate change on the population dynamics of arthropods <i>Keiji Kiritani</i>	09:15-09:30
S901M03	Impact of climate change on natural enemies of insect pests <i>Vincent Faray, Patricia Gilbert, Emmanuel Desouhant, Thierry Hance</i>	09:30-09:45
S901M04	Climate change effects on Insect - host plant - herbivore interactions <i>Hari C. Sharma</i>	09:45-10:00
S901M05	Towards biodiversity-based ecological IPM: Case in US apple production <i>David Biddinger, Neelendra Joshi, Timothy Leslie, Edwin Rajotte</i>	10:00-10:15
S901M06	Effect of climate change on bioefficacy of IPM technologies <i>Mukesh Kumar Dhillon, Hari C. Sharma</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S901M07	Impact of climate change on activity and abundance on natural enemies of insect pests <i>Linda Thomson, Ary Hoffmann</i>	11:00-11:15
S901M08	Aspects of arthropod ecology: A contribution to sustainable agribusiness in South Africa <i>Vaughn Richmond Swert, Schalk van der Merwe Louw, Molliland Seaman</i>	11:15-11:30
S901M09	Insect biodiversity: Created dung beetle communities in pastures <i>Thomas James Riddell-Smith, John Matthiessen, David Cousins, Rob Emery, Ian Dadour</i>	11:30-12:00
	Lunch	12:30-14:00

S 902

Insect biodiversity conservation

Symposium Organizers: James S. Pryke(South Africa)

Room 22

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
S902F01	Using ecological networks to conserve arthropod biodiversity in transformed landscapes <i>James Stephen Pryke</i>	14:00-14:15
S902F02	Arthropod biodiversity in Ethiopia - Religion and science partner for conservation <i>Margaret Dalzell Lowman</i>	14:15-14:30
S902F03	Linking forest biodiversity to sustainable livelihood through commercial insects in Africa <i>Suresh Kumar Balana</i>	14:30-14:45
S902F04	Butterfly biodiversity in the Australian monsoon tropics: A preliminary study <i>Michael Braby</i>	14:45-15:00
S902F05	Identifying biome switches by describing the relative role of dispersal vs. environment in structuring ant assemblages <i>Stefan Hendrik Faard, Thirandavha Caswell Mursiy</i>	15:00-15:15
S902F06	Restoring ecological integrity in depauperate agro-ecosystem soils: Disentangling the underlying issues <i>Schalk van der Merwe Louw</i>	15:15-15:30
	Coffee/Tea Break	15:30-16:00

S902F07	Entomology research after the convention on biological diversity <i>Priyadarshan Dharma Rajan, Prathapan K. Divakaran</i>	16:00-16:15
S902F08	Arthropod function and redundancy: A baseline for monitoring environmental change in naturally fragmented habitats across disturbance regimes <i>Elizabeth Meyer-Milne, Serban Proches, Eileen Campbell</i>	16:15-16:30
S902F09	Biodiversity soup: Metabarcoding of arthropods for rapid biodiversity assessment and biomonitoring <i>Douglas Yu, Yinqiu Ji, Brent Emerson</i>	16:30-16:45
S902F10	Conserving pollinators: Can standard restoration mixes restore pollinator diversity? <i>Alexandra Harman-Threatt, Stephen Hendrix</i>	16:45-17:00
S902F11	Elevational pattern in diversity of butterflies in the Western Himalayas, India <i>Manish Bhardwaj, V.P. Uniyal</i>	17:00-17:15
S902F12	Crop pollination services foster rich native bee biodiversity and abundance in western USA <i>Sujaya Rao, William P. Stephen</i>	17:15-17:30

S 903

Insect biodiversity in the changing world

Symposium Organizers: Ke Chung Kim (U.S.A.)

Room 16

August 24, Friday

Code No.	Presentation Title <i>Authors, Presenting author</i>	Time
S903F01	Insect biodiversity: More than just bugs under climate change <i>Ke Chung Kim</i>	14:00-14:30
S903F02	Will climate change and biological invasions act synergistically? Response from the ants <i>Clea Bertelsmeier, Gloria M. Luque, Benjamin D. Hoffmann, Franck Courchamp</i>	14:30-15:00
S903F03	Elucidating changes in biodiversity with museum collections and biodiversity informatics <i>Heather M. Campbell, Andrew R. Deans</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00
S903F04	Insect biodiversity science: Toward an integrated discipline for insects <i>Ke Chung Kim, Zhiqi Liu</i>	16:00-16:30
S903F05	Diversity of the insect fauna of a mangrove forest in southern Mexico from the Middle Miocene to the present <i>Monica Morayma Solorzano Kraemer, Frauke Stebner</i>	16:30-17:00
S903F06	Taphonomical and ecological implications of fossil and recent Psychodidae (Insecta, Diptera) from Mexico <i>Frauke Stebner, Monica Morayma Solorzano Kraemer</i>	17:00-17:30

Section 10 Integrated Pest Management

Conveners: Yoo Han Song (Republic of Korea), Babara Ekborn (Sweden)

S 1001

Chemical ecology and crop protection

Symposium Organizers: Silvia Dorn (Switzerland), Maya Evenden (Canada)

Room 4

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S1001M01	Pheromone-based management of the red clover casebearer moth, an invasive pest of clover in Canada <i>Boyd Mori, Maya Evenden</i>	09:00-09:15
S1001M02	Anti-aggregation semiochemicals for control of forest pests <i>Nancy E. Gillette</i>	09:15-09:30
S1001M03	Pheromone-based monitoring of the weevil pests in the tropics <i>Gadi V.P. Reddy</i>	09:30-09:45
S1001M04	Chemically-based monitoring of the brown marmorated stink Bug, <i>Halyomorpha halys</i> (Stål) <i>Tracy C. Leskey, Ashat Khelilian, Aijun Zhang, Don Weber</i>	09:45-10:00
S1001M05	Mating disruption of multiple species in horticulture <i>Alexandre Ilichev</i>	10:00-10:15
S1001M06	Plant volatiles attracting an invasive fruit moth: Basic findings relevant for future monitoring <i>Silvia Dorn, Jaime Pivero, Adriana Najar-Rodriguez</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1001M07	Use of a plant-volatile moth attractant in resistance management for transgenic cotton <i>Peter C. Gregg, Alice P. Del Socorro, Anthony J. Hawes</i>	11:00-11:15
S1001M08	"Attract and reward" as a contribution to pest management <i>Sofia Ome-Gordon, Stephen David Whitten, Mattias Jonsson</i>	11:15-11:30
S1001M09	Root feeders induce volatiles attracting predators <i>Anne-Marie Cortesero, Alan Kenguntzell, Coline Jasso, Sébastien Dugravot</i>	11:30-11:45
Lunch		12:30-14:00

S 1002

Biology and control of spotted wing *Drosophila*, *Drosophila suzukii*

Symposium Organizers: Robert Van Steenwyk (U.S.A.), Vaughn Walton (U.S.A.)

Room 4

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S1002M01	The distribution and host range of SWD from the Eastern Asia with development of diagnostic method using DNA barcode <i>Deuk-Soo Choi, Youngjin Kim, Anyoung Park, Tae Gyun Kang, Youngho Cho, Jong-Chul Jeong, Sang-Ho Nam, Youhan Song</i>	14:00-14:30
S1002M02	<i>Drosophila suzukii</i> (Diptera: Drosophilidae) in Europe: Geographic distribution, biology and economic impact three years after detection. <i>Claudio Ioriatti, Gianfranco Anfora, Gloria De Ros, Alberto Grassi</i>	14:30-15:00
S1002M03	Spotted wing <i>drosophila</i> , a new berry and cherry pest in the Western U.S.A. <i>Peter W. Shearer, Robert A. Van Steenwyk, Denny J. Bruck, Elizabeth H. Beers, Lynell K. Tanigoshi</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00
S1002M04	Status of spotted wing fruit fly, <i>Drosophila suzukii</i> , in China <i>Yi Yu, Dong Chu</i>	16:00-16:15
S1002M05	<i>Drosophila suzukii</i> host selection and utilization in eastern United States agroecosystems <i>Hannah Burrack, James Price, Rufus Isaacs, Dan Harton, Cesar Rodriguez-Saona, J. Powell Smith, Greg Loebl</i>	16:15-16:30

Code No.	Presentation Title Authors, Presenting author	Time
S1002M06	Seasonal biology of spotted wing drosophila (<i>Drosophila suzukii</i>) in California raspberries <i>Kelly A. Hamby, Mark P. Bolda, Monise E. Sheehan, Frank G. Zalom</i>	16:30-16:45
S1002M07	Insecticide Resistance Monitoring in <i>Drosophila suzukii</i> <i>Frank G. Zalom, Kelly Hamby, Denny Bruck, Peter Shearer, Joanna Chiu</i>	16:45-17:00
S1002M08	Development of monitoring and control techniques against spotted wing <i>Drosophila</i> , <i>D. suzukii</i> <i>Peter Wittgall</i>	17:00-17:15
S1002M09	Control of spotted wing drosophila (<i>Drosophila suzukii</i>) in California cherries <i>Robert Van Steenwyk</i>	17:15-17:30
S1002M10	Determining biological parameters of spotted wing drosophila <i>Vaughn Martin Walton, Sam Tachen, Jana Lee</i>	17:30-18:00

S 1003

Growing potatoes: A tale of emerging and old pests

Symposium Organizers : Silvia Rondon(U.S.A.), Joseph Munyaneza(U.S.A.),
Rajagopalbabu Srinivasan(U.S.A.)

Room 15

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S1003M01	Cyazapir™, a new tool against emerging and old potato insect pests around the globe <i>Juan Manuel Alvarez, I. Billy Arnan, Hector E. Portillo</i>	09:00-09:30
S1003M02	Alternate host induced complexity and vector-virus interactions in potato pathosystem <i>Rajagopalbabu Srinivasan, Juan Manuel Alvarez, Felix Cervantes</i>	09:30-10:00
S1003M03	The potato tuberworm in the U.S.A. : An exotic or invasive pest? <i>Silvia I. Rondon</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S1003M04	Colorado Potato Beetle: Why is it such a pain in the neck? <i>Andrei Alyokhin</i>	11:00-11:30
S1003M05	Same diet but different exploitation strategies: an aphid tale <i>Philippe Guerdanengo, Laurence Brunissen, Frederic Francis, Charles Vincent, Anas Cherqui</i>	11:30-12:00
S1003M06	The potato virus Y tale: Studying the aphid vectors and preventing transmission <i>Yvan Pelletier, Xianzhou Nie</i>	12:00-12:30
	Lunch	12:30-14:00
S1003M07	The impacts of soybean aphid, a recent invasive to North America, on seed potato production <i>Jeffrey Davis, Edward Radcliffe, David Ragdale</i>	14:00-14:30

S 1004

Integrated and biological control of glasshouse pests

Symposium Organizers : Eizi Yano(Japan), Irene Vänninen(Finland)

Room 20

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S1004M01	The state of commercial augmentative biological control: plenty of natural enemies, but a frustrating lack of uptake <i>Johan Coert Vanenteren</i>	14:00-14:30
S1004M02	Biological control of <i>Tuta absoluta</i> by new species of Heteropteran predators <i>Vanda Helena Paes Bueno, Joop C. Van Lenteren</i>	14:30-14:45

Code No.	Presentation Title Authors, Presenting author	Time
S1004M03	Influence of natural and supplemental lighting on predation and oviposition by predatory mites on western flower thrips <i>John Les Shipp, Laura Hewitt, Rose Buitenhuis, Cynthia Scott-Dupree</i>	14:45-15:00
S1004M04	The effect of photoperiod and light quality on biology of <i>Macrolophus pygmaeus</i> , a predator of whiteflies <i>Anne Ida Nissinen, Della M. Pinto, Riitta Irene Vanninen</i>	15:00-15:15
S1004M05	Impact of secondary parasitism on <i>Aphidius colemani</i> in the banker plant system on aphid control in commercial greenhouses in Japan <i>Koukichi Nagasaka, Naoyuki Takahashi, Toshihiro Okabayashi</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1004M06	Development of a banker plant system for <i>Aphidoletes aphidimyza</i> (Diptera: Cecidomyiidae) to control aphids on sweet pepper from summer to autumn in Japan <i>Junichiro Abe</i>	16:00-16:15
S1004M07	Competitive interactions between aphelinid parasitoids and the implications for population stability and biological control applications <i>Nian-Wan Yang, Fang-Hao Wan, Hai-Yun Xu, Lu-Lu Ji</i>	16:15-16:30
S1004M08	Bee vectoring technology for crop protection and recent studies in Korea <i>Hong-Hyun Park, Les Shipp, Jeong Jun Kim, Peter Kevan</i>	16:30-16:45
S1004M09	Evaluation of integrated and biological control of a new virus disease, <i>cucurbit chlorotic yellows virus</i> (CCYV), transmitted by whiteflies, using a simple mathematical model <i>Elzi Yano, Yutaka Gyoutoku</i>	16:45-17:00
S1004M10	Developing IPM for artificially lighted year-round crops: An activity theoretical approach <i>Riitta Irene Vanninen, Marco Pereiro-Queral, Jenny Forstrom, Yrja Engstrom</i>	17:00-17:15
S1004M11	Integration of biological and chemical control in greenhouses in California: A brief history and future directions <i>Michael P. Parrella</i>	17:15-17:30

S 1005

Insect life tables and their applications

Symposium Organizers : Hsin Chi(Taiwan), Aurang Kavousi(Iran), Remzi Atlihan(Turkey)

Room 19

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S1005M01	Insect life tables: Theory, data analyses, and their applications <i>Hsin Chi, Yu-Bing Joyce Huang</i>	09:00-09:30
S1005M02	Population-level effects of two acaricides and their mixture on <i>Tetranychus urticae</i> (Acari: Tetranychidae) <i>Aurang Kavousi, Zahra Zarei, Hassan Ruhmani, Hadi Mosallanejad</i>	09:30-09:45
S1005M03	Performance of dusky-veined walnut aphid, <i>Panaphis juglandis</i> (Goeze) (Homoptera: Callaphididae), on different walnut cultivars <i>Evin Polat Akkopr, Remzi Atlihan</i>	09:45-10:00
S1005M04	Life table and predation analysis of predator-prey relationship between <i>Harmonia dimidiata</i> F. (Coleoptera: Coccinellidae) and <i>Aphis gossypii</i> Glover (Homoptera: Aphididae) <i>De-Fen Mou</i>	10:00-10:15
S1005M05	Constructing life tables for difficult to rear species: A case study of <i>Forcipomyia taiwana</i> (Shiraki) (Diptera: Ceratopogonidae) <i>Chih-Chung Lee</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00

Code No.	Presentation Title Authors, Presenting author	Time
S1005M06	The temperature-dependent development and life table parameters of <i>Aphis gossypii</i> Glover (Hemiptera: Aphididae) on <i>Gossypium hirsutum</i> L. using a linear and various nonlinear models Ismail Karaca, Mehmet Salih Osgokce, Senay Ozer, Alime Bayındır	11:00-11:15
S1005M07	Life table of <i>Paederus fuscipes</i> (Coleoptera: Staphylinidae) Lee Jin Bang, Kok Boon Seah, Zaini Jaal, Chaw Yong Lee	11:15-11:30
S1005M08	Effect of host plants on life table of broad mite, <i>Polyphagotarsonemus latus</i> (Banks) (Acari: Tarsonemidae) Patchanee Vichitbandha, Angsumarn Chandrapatya	11:30-11:45
S1005M09	Population parameters of the oriental fruit fly <i>Bactrocera dorsalis</i> (Hendel) (Diptera: Tephritidae) of different sex ratio treatments Yu-bin Kevin Huang	11:45-12:00
S1005M10	Life tables of the tortoise beetle, <i>Aspidomorpha miliaris</i> (Coleoptera: Chrysomelidae) on Convolvulaceae Wen-Feng Hsiao, Chung-Liang Cheng	12:00-12:15
S1005M11	Use of life tables in aphid demography and in evaluation of crop resistance Huiyan Zhao, Ziqing Hu, Xiangshun Hu, Gaisheng Zhang	12:15-12:30
Lunch		12:30-14:00
S1005M12	Life tables of important medical insects Refaat Mohamed Gabre	14:00-14:15
S1005M13	The effect of certain watermelon varieties on the biology of <i>Aphis gossypii</i> Glover (Hemiptera: Aphididae) Yunus Bayram, Erol Bayhan	14:15-14:30
S1005M14	Consumption capacity of <i>Helicoverpa armigera</i> (Hübner) (Lepidoptera: Noctuidae) fed on asparagus determined by using age-stage two-sex life table Ratna Kumar Jha, Li-Cheng Tang	14:30-14:45
S1005M15	Effect of static magnetic fields (SMF) on the viability and fecundity of aphid <i>Sitobion avenae</i> (Homoptera: Aphididae) under laboratory conditions Juan He, Huiyan Zhao	14:45-15:00
S1005M16	Notes on the biology of fig-tree moth <i>Oncroglya amanda</i> Staud. (Lepidoptera: Lymantriidae) from Erbil City, Kurdistan Region, Iraq Wand Khalis Ali	15:00-15:15

S 1006

Spatial dynamics and movement of insect pests

Symposium Organizers : Yong-Lak Park(U.S.A.), Patrick C. Tobin(U.S.A.)

Room 20

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S1006M01	Effects of host range, mobility, and surrounding environment on spatial dynamics and movement of insect pests Yong-Lak Park	09:00-09:30
S1006M02	Entomological-radar monitoring of insect pest population movements Vincent Alistair Drake, Haikou Wang	09:30-09:45
S1006M03	Analysis of spatial distribution of greenhouse insect pests in Korea Jung-Joon Park, Kijong Cho	09:45-10:15
S1006M04	Influence of predator-avoidance behavior on the movement patterns of whiteflies in greenhouse Dae Hyung Lee, Jan Nyrop, John Sanderson	10:15-10:30
Coffee/Tea Break		10:30-11:00

Code No.	Presentation Title Authors_Presenting author	Time
S1006M05	Site specific management of insect pests of elm trees in the University of Tabriz campus <i>Ragholiyeh Karimzadeh, Mir Jafar Hejaz, Shafizad Iranpour</i>	11:00-11:15
S1006M06	Spatial movements and dynamics of epidemic bark beetles <i>Bjørn Økland, Olav Skarpeas, Christo Nikolov</i>	11:15-11:45
S1006M07	A simulation model to predict the potential spread of the pine wood nematode, <i>Bursaphelenchus xylophilus</i> over a range of scales <i>Christelle Robinet, Jiaohua Sun, Richard Baker, Hugh Evans, Alain Roques</i>	11:45-12:00
S1006M08	Putting the brakes on the European corn borer cycle in the US: Bottom-up effect of genetically modified (GM) maize damps cycle amplitude <i>James R. Bell, Eric C. Burkness, Alice A. Milne, David W. Onstad, Mark Abrahamson, Krista L. Hamilton, William D. Hutchison</i>	12:00-12:30
Lunch		12:30-14:00

S 1007

Fruit tree IPM

Symposium Organizers : Peter W. Shearer(U.S.A.), Dong-Soon Kim(Republic of Korea)

Room 12

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
	Welcoming Remarks	09:00-09:15
S1007TU01	Lepidopteran pest pressure in stone fruit tree orchards in Korea compared to other countries <i>Chulesil Jung, Jeong Joan Ahn, Seon Ah Jeong, Lalit Prasad Sah, Hyangmi Kim, Soonwon Lee</i>	09:15-09:30
S1007TU02	Reduced pest status of lightbrown apple moth (<i>Epiphyas postvittana</i>) and native leafrollers (Lepidoptera: Tortricidae) on apple orchards in New Zealand <i>Peter Leonard La, Jim Walker</i>	09:30-09:45
S1007TU03	The impact of invasive brown marmorated stink bug, <i>Halyomorpha halys</i> on IPM programs in eastern US fruit orchards <i>Greg Krawczyk, Larry A. Hull, David J. Biddinger</i>	09:45-10:00
S1007TU04	Assessment of mass trapping with kairomones and pheromones against the apple clearwing moth, <i>Synanthedon myopaeformis</i> <i>Maya Evenden, V. Marius Aurelian, Gary Judd</i>	10:00-10:15
S1007TU05	Considerations in the design of mass trapping or lure and kill for pest management <i>David Maxwell Sackling, John M. Kearn, Lloyd D. Stringer, AM. El-Sayed, P. Lo, V. Bell, D.J. Rogers, JTS. Walker</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1007TU06	Biologically based management of Asian citrus psyllid (ACP) <i>Diaphorina citri</i> to reduce spread of Huanglongbing in Florida <i>Jawwad A. Qureshi, Philip A. Stansly</i>	11:00-11:30
S1007TU07	New emerging insect pests and their management strategies in citrus orchards in Jeju, Korea <i>Dong-soon Kim, Yang Seok-Jang, Seong Hyuk Kang, Su Bin Kim, Yang Geun Kim</i>	11:30-11:45
S1007TU08	Progress in the development of an in-canopy fixed spraying system for high-density apple orchards <i>Arthur M. Agnello, Andrew J. Landers</i>	11:45-12:00
S1007TU09	IPM on top fruit in Italy: State of the art and outlook <i>Edison Pasqualini, Claudio Ioriatti, Fabio Molinari</i>	12:00-12:15
S1007TU10	A 20 year evolution of pear pest management in the Western United States <i>Robert Van Steenwyk, S.C. Wheeler, J.E. Dunley</i>	12:15-12:30
Lunch		12:30-14:00

S 1008

Ecological control of regional rice insect pests in integrated pest management protocol

Symposium Organizers : Jichao Fang(China), Masaya Matsumura(Japan), Michael Stout(U.S.A.)

Room 12

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1008TU01	Ecological control of native insect pests based on insect population genetics in regional rice IPM Jichao Fang	14:00-14:15
S1008TU02	Ecological regulatory mechanism of temperature on population size in <i>Laodelphax striatellus</i> Xiangdong Liu, Aimin Zhang	14:15-14:30
S1008TU03	Biological and ecological control of the brown planthopper in South China Wenling Zhang, Guoren Zhang, Dexiang Gu	14:30-14:45
S1008TU04	Diversity analysis of symbiotic bacteria in <i>Nilaparvata lugens</i> with different virulence Wang Weixia, Fu Qiang	14:45-15:00
S1008TU05	Recent advances in the management of insect pests of rice in the USA Michael Joseph Stout	15:00-15:15
S1008TU06	Use of natural enemies as a bio-indicator for assessing environmental soundness of agricultural practices in rice paddies Takatoshi Ueno	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1008TU07	Resistance management for planthoppers and leafhoppers in South East Asia: Challenges and opportunities Finbarr Horgan	15:45-16:00
S1008TU08	Enhancing biological control of rice planthopper pests by ecological engineering in China Zhongxian Lu, Pingyang Zhu, Guihua Chen, XL Heong, GM. Gurr	16:00-16:15
S1008TU09	Horizontal webs of <i>Tetragnatha</i> spiders enhance biological control of insect pests by spiders in organic paddy fields Mayara Takada, Tetsuya Kobayashi, Akira Yoshioka, Shun Tokogi, Inumi Washitani	16:15-16:30
S1008TU10	Genetics and breeding of rice conferring resistance to planthoppers and leafhoppers Jirapong Jairin, Masaya Matsumura, Mideshi Yasui	16:30-16:45
S1008TU11	Virulence monitoring and integrated management for main rice insect pests in south China Fengkuan Huang, Suosheng Huang, Bi-Qiu Wu	16:45-17:00
S1008TU12	Silicon-mediated rice resistance to the striped stem borer: Effects of rice varieties and larval stage Yongqiang Han, Maolin Hou	17:00-17:15
S1008TU13	Possible invasion areas of the alien apple snail, <i>Pomacea canaliculata</i> , estimated from accumulated climate data by automated meteorological data acquisition system (AMeDAS) in Japan Takashi Wada, Keichiro Matsukura	17:15-17:30

S 1009

Ecological genetics of crop plants in pest management: From conventional breeding to cisgenic and transgenic crops

Symposium Organizers : Xinzhi Ni(U.S.A.), Zhongren Lei(China)

Room 20

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1009TU01	Looking back to move forward: Historical milestones of host plant resistance in integrated pest management succession Sharon Sue Quisenberry	09:00-09:15
S1009TU02	Holistic corn breeding approach to improve abiotic and biotic and stress tolerance Wenwei Xu	09:15-09:30
S1009TU03	Genetic basis of wheat resistance to the English grain aphid Huiyan Zhao, Zuping Hu, Xiangshu Hu, Thomas Theime, Udo Helmreich, Guisheng Zhang	09:30-09:45

Code No.	Presentation Title Authors_Presenting author	Time
S1009TU04	Specific resistance of eight wheat varieties to <i>Sitobion avenae</i> , <i>Rhopalosiphum padi</i> , and <i>Schizaphis graminum</i> (Hemiptera: Aphididae) Xiangshun Hu, Huiyan Zhao, Tang-Xian Liu	09:45-10:00
S1009TU05	Native host plant resistance to whiteflies in watermelon Alvin Simmons, Amnon Levi	10:00-10:15
S1009TU06	Comprehensive field screenings for whorl- and ear-feeding insect resistance in corn germplasm lines Xinzhai Ni	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S1009TU07	Constitutive and induced resistance to insects: Potential and limitations Hari C. Sharma	11:00-11:15
S1009TU08	Repellent response of female agromyzid flies to leafminer-infested bean plants Hailong Wang, Zhongren Lei, Xinzhai Ni	11:15-11:30
S1009TU09	Impact of scion and rootstock combination on pest populations on cherry and apple plants Xie Li	11:30-11:45
S1009TU10	Resistance in peach rootstocks and scions to lesser peachtree borer [<i>Synanthedon pictipes</i> , lepidoptera: sesidae] Ted Eric Cottrell, Tom Beckman, Dan Horton	11:45-12:00
S1009TU11	Patterns of host adaptation in <i>Frankliniella occidentalis</i> among vegetable crops Zhongren Lei, Hailong Wang, Xinzhai Ni	12:00-12:15
S1009TU12	Variation of cross-resistance of Cry1Ab- and Cry1Ac-selected Asian corn borer to other Cry toxins Mingxia He, Xu Yang, Ning Li, Zhenying Wang, Qunlong Yang, Kanglai He	12:15-12:30
	Lunch	12:30-14:00
S1009TU13	Area-wide monitoring of resistance to <i>Bacillus thuringiensis</i> Cry1Ab maize in <i>Diatraea saccharalis</i> Fangmeng Huang, Mukti N. Ghimire, B. Rogers Leonard, Chris Daves, Ronnie Levy	14:00-14:15
S1009TU14	Moving forward: Trends and future prospects of biotechnology in transgenic crops for insect control Jeng Shang Chen	14:15-14:30
	Discussion	14:30-15:30
	Coffee/Tea Break	15:30-16:00

S 1010

A landscape view of cultural control

Symposium Organizers : Megha N. Parajulee(U.S.A.)

Room 19

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
S1010TU01	Evaluating the IPM fit of insecticides? Sorting myth from reality Lewis Wilson, Simone Heimaano	09:00-09:30
S1010TU02	Fungal endophytes as insect management tools in cotton Gregory A. Sward, Maria Juissa Ek-Ramos, Diana Castillo Lopez, Wenqing Zhou, Cesar Valencia	09:30-10:00
S1010TU03	Integrating natural enemies and semiochemicals in cultural control for an effective IPM Stefano Colazza, Ezio Peri, Antonino Cusumano	10:00-10:15
S1010TU04	Dispersal of <i>Euschistus servus</i> (Heteroptera: Pentatomidae) in time and space Michael Dennis Toews, John Herbert, Tai-Huang, Ishakh Pulaskatu thadi	10:15-10:45
	Coffee/Tea Break	10:30-11:00
S1010TU05	Landscape-level cultural control as an arthropod pest management approach in Texas High Plains cotton agroecosystems Megha N. Parajulee, Rom B. Shrestha, William O. McSpadden, Stanley C. Carroll	11:00-11:30
S1010TU06	Spatio-temporal dynamics of mirid bug <i>Creontiades biseratense</i> (Distant) in Bt cotton and other host crops: An intraguild assessment in the endemic area of an emerging pest Shashikang Shiddappa Ullikeri, Monohar Venappa Shyadaguppi	11:30-11:45
S1010TU07	Area-wide pest management of sucking bugs in temperate climates benefits from a landscape perspective in managing vegetation: Lessons from field crops of the North American Great Plains Michael J. Brewster, Norman C. Elliott, Megha N. Parajulee	11:45-12:15
	Lunch	12:30-14:00

S 1011

The contribution of IPM to food security in the developing world

Symposium Organizers: Christian Borgemeister(Kenya), Aziz Ajlan(Saudi Arabia)

Room 19

Africa

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1011TU01	The contribution of IPM to food security in the developing world <i>Christian Wilhelm Borgemeister, Aziz Ajlan</i>	14:00-14:15
S1011TU02	Advance in integrated pest management of crops in China <i>Kaogming Wu</i>	14:15-14:45
S1011TU03	Field evaluation of trap capture based threshold for application of entomopathogenic fungi in management of thrips on French beans <i>Alexander Mutua Murea, Subromanian Seigan, Heleen Kuriima, Zipporah Blister Osiemo, Monica Waijanyo, Willem J. De Kogel</i>	14:45-15:00
S1011TU04	Development and diffusion of a new IPM approach for potato in the Andean region of Peru <i>Jürgen Kroschel</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00
S1011TU05	Some factors affecting the productivity of maize in small scale farmers' fields in Ekpoma, Edo State, Nigeria <i>Nathaniel Osawe Oigiangbo, Benjamin Igbo Ighinosa, Manuele Terno, Mark Edewede, Osagie Izebhije</i>	16:00-16:15
S1011TU06	How the use of integrated pest management for vegetables contributes to food and nutritional security in Asia <i>Srinivasan Ramasamy</i>	16:15-16:30
S1011TU07	Push-Pull: A platform technology for enhancing food security and environmental sustainability in Africa <i>Zeyaur Khan, Charles Midega, Jimmy Pitzchar, Toby Bruce, John Pickett</i>	16:30-17:00
S1011TU08	Success and challenges in integrated management of cassava and plantain pests in sub-Saharan Africa <i>Rachid Hanna, Laya Kumar, James Legg, Apollin Fatsa Kuato, Sergine Ngatut, Armand Daumitsap</i>	17:00-17:30
S1011TU09	IPM in date palms and its contribution to food security in the Middle East <i>Aziz M. Ajlan</i>	17:30-18:00
S1011TU10	IPM in rice - Has it contributed to food security in Asia <i>K. L. Heong</i>	18:00-18:15

S 1012

Recent challenges in IPM of cereal and sugarcane moth borers

Symposium Organizers: François-Régis Goebel(France), Des Conlong(South Africa),

Nader Sallam(Australia)

Room 14

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1012TU01	Innovative agro-ecological strategies for management of cereal stem borers <i>Johanne Van den Berg, Jessica Cockburn, Des Conlong</i>	14:00-14:15
S1012TU02	Key agronomic and ecological factors impacting moth borers populations and their natural enemies in the context of sugarcane expansion and intensification <i>François-Régis Goebel</i>	14:15-14:45
S1012TU03	Bio-intensive integrated pest management of Invasive alien plants and indigenous insect pests of Gramineaceous crops in a single programme: Fact or fantasy? <i>Desmond Edward Conlong</i>	14:45-15:15
S1012TU04	Sterile insect technique in sugarcane pest management <i>Desmond Edward Conlong, Angela Jasmin Walton, Pride Mudavanhu, Linke Potgieter</i>	15:15-15:45
Coffee/Tea Break		15:30-16:00
S1012TU05	Integrated pest management of sugarcane moth borers: An Indonesian experience <i>Nader Sallam, Etik Achadian, Peter Samson, Régis Goebel</i>	16:00-16:30
S1012TU06	Varietal resistance to stemborers in Papua New Guinea <i>Peter Samson, Kaile Korowi, Lastus Kuniata</i>	16:30-16:45

Code No.	Presentation Title Authors_Presenting author	Time
S1012TU07	Significant improvement of IPM strategies against the sugarcane stem borer, <i>Chilo sacchariphagus</i> , through long-term successful storage of <i>Trichogramma chilonis</i> (Hymenoptera:Tric) Hong Do Thi Khanh, Adrien Bonnet, Johanna Bodendorfer, Etty Colambet, Francois-Regis Goebel, Marlene Marquies, Clarisse Clain, Estelle Roux, Elisabeth Tabone	16:45-17:00
S1012TU08	Key steps of a successful biological control against the sugarcane stemborer by inundative release of <i>Trichogramma</i> spp Elisabeth Tabone, Marlene Marquies, Clarisse Clain, Estelle Roux, Francois-Regis Goebel, Jacques Frandon, Etty Colambet, Hong Do Thi Khanh	17:00-17:15
S1012TU09	IPM module for the sustainable management of sugarcane stem borer, <i>Chilo infuscatellus</i> (Pyralidae, Lepidoptera) in Pakistan Shahbaz Ahmad	17:15-17:30

S 1013

Pattern recognition and sensing systems for IPM

Symposium Organizers : Tae-Soo Chon(Republic of Korea), Ryo Minegishi(Japan)

Room 19

August 22, Wednesday

Code No.	Presentation Title Authors_Presenting author	Time
S1013W01	Study of adaptive odor searching behavior using a brain-machine hybrid system Ryo Minegishi, Yosuke Takahashi, Atsushi Takashima, Daisuke Kurabayashi, Ryohei Kanazaki	09:00-09:30
S1013W02	Chemical plume tracing performance depending on angular velocity observed by a brain-machine hybrid system Yosuke Takahashi, Ryo Minegishi, Atsushi Takashima, Daisuke Kurabayashi, Ryohei Kanazaki	09:30-10:00
S1013W03	Extraction of morphological characteristics of insect specimens for automatic identification by using wavelets and self-organized map Chang Woo Ji, Young-Seuk Park, Bong-Gyu Byun, Hwang-Yong Kim, Tae-Soo Chon	10:00-10:15
S1013W04	Agricultural robot for pest management and in situ pest recognition Chunlei Xia, Jang-Myung Lee, Bu-Keun Chung, Yoo-Han Song, Tae-Soo Chon	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1013W05	Recognition of the line-shaped movement of aquatic macroinvertebrates in stressful conditions Woon-Seok Cha, Ba-Moon Kim, Chunlei Xia, Hungsoo Kim, Kyung-Hee Choi, Tae-Soo Chon	11:00-11:15
S1013W06	Analysis of movement behaviors in response to chemical stressors using self-organizing map and hidden Markov model Yan Li, Tae-Soo Chon, Yuedan Liu, Jang-Myung Lee	11:15-11:30
S1013W07	Analysis of gene information of insects based on pattern recognition techniques Dang-Hwan Kim, Tuyen Van Nguyen, Hungsoo Kim, Thao Thi Nguyen, Young-Su Seo, Kazu Watanabe, Tae-Soo Chon	11:30-11:45
S1013W08	Wavelet method applied to analysis of movement behavior of indicator species Hungsoo Kim, Yuedan Liu, Zongming Ren, Tae-Soo Chon	11:45-12:15
S1013W09	Computational methods for analyzing morphology and behavior of macroinvertebrates and insects for monitoring Tae-Soo Chon	12:15-12:45
Lunch		12:30-14:00

S 1014

Stink bugs: their expansion, pest status, and control tactics

Symposium Organizers : Kenji Fujisaki(Japan), Un Taek Lim(Republic of Korea),
Antonio Panizzi(Brazil)

Room 12

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S1014TH01	Range expansion of the southern green stink bug <i>Nezara viridula</i> in Japan with advance in the climate warming <i>Kenji Fujisaki</i>	09:00-09:15
S1014TH02	Pecky rice problem in Japan <i>Miroya Higuchi</i>	09:15-09:30
S1014TH03	Research status on stink bugs in Korea <i>Chung Gyoo Park, Dong Soo Kim</i>	09:30-09:45
S1014TH04	Recent advances on phytophagous stink bug feeding and damage in South America <i>Antonio Ricardo Panizzi</i>	09:45-10:00
S1014TH05	Current pest status of <i>Halyomorpha halys</i> in the USA <i>George C. Hamilton</i>	10:00-10:15
S1014TH06	Egg parasitoids of stink bugs: Research status and potential for biological control <i>Eric Conti, Stefano Colazza</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1014TH07	Provision of host eggs to increase field parasitism of the bean bug: Theory and practice <i>Un Taek Lim</i>	11:00-11:15
S1014TH08	Detecting source habitat of the bean bug <i>Riptortus pedestris</i> and its egg parasitoid: Toward area-wide pest management using natural pest control <i>Ken Tabuchi, Masatomo Iaki, Hideki Iwai, Nobuo Mizutani, Kouichi Nagasaka, Seichi Moriya, Rikyo Sasaki</i>	11:15-11:30
S1014TH09	Seasonal habitat use by stink bug pests and their egg parasitoids: Implications for managing these mobile pests in diversified agroecosystems <i>Yoshimi Hirose</i>	11:30-11:45
S1014TH10	Attractiveness of stink bugs to trap types and its utilization in fields <i>Seon-Do Bae, Hyun-Ju Kim, Young-Nam Yoon</i>	11:45-12:00
S1014TH11	The pentatomid hunters: Molecular tracking of predation on stink bugs (Hemiptera: Pentatomidae) in cotton and soybeans <i>James Douglas Harwood, Kacie J. Athey, John R. Ruberson</i>	12:00-12:15
Lunch		12:30-14:00

S 1015

The role of present and future genetically-engineered insect-resistant crops in IPM

Symposium Organizers : Jörg Romeis(Switzerland), Anthony Shelton(U.S.A.), Yunhe Li(China)

Room 12

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S1015TH01	Bt maize in the Americas from 1996 to 2012 <i>Richard L. Hellmich</i>	14:00-14:15
S1015TH02	The changing landscape of cotton IPM in the GM crop era <i>Steven E. Naranjo</i>	14:15-14:30
S1015TH03	Indirect, plant-mediated competition in Bt cotton - a possible mechanism underlying secondary pest outbreaks <i>Jörg Romeis, Steffen Hogenbuecher, Felix L. Waeckers</i>	14:30-14:45
S1015TH04	Bt rice in China: Potential benefits, impact, and sustainability <i>Gongyin Ye, Mao Chen, Yang Chen, Junce Tian, Yufa Peng</i>	14:45-15:00

Code No.	Presentation Title Authors, Presenting author	Time
S1015TH05	Bt transgenic grain legumes in pest management: Progress and problems <i>Haril C. Sharma</i>	15:00-15:15
S1015TH06	Bt vegetables for insect management within IPM programs: Successes, disappointments, challenges and ways to move forward <i>Anthony M. Shelton</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1015TH07	Field resistance of Bt eggplant expressing insecticidal Bt Cry 1Ac protein against the fruit and shoot borer, <i>Leucinodes orbonalis</i> Guenee in the Philippines <i>Laudes Dichoso Taylo, Maria Luz Josue Sison, Desiree Menancia Hautea, Mary Ann Mecija Abustan, Oliver Obnias Silvestre, Maria Dulce Javillano Mastales, Joseph Caparipan Banathan, Randy Anocha Hautea, Reynoldo Bautista Quiloy</i>	16:00-16:15
S1015TH08	Insect-resistant GM crops and IPM: The chemistry should be right <i>Marcel Dicke</i>	16:15-16:30
S1015TH09	Insect resistance management for GE crops: Patterns of success <i>Richard Tyrone Roush</i>	16:30-16:45
S1015TH10	Insect resistance management in GM crops: Challenges for African farmers <i>Johann Van den Berg</i>	16:45-17:00
S1015TH11	Controlling corn rootworm with dsRNA: Efficacy, specificity and IRM considerations <i>William Moore, Pamela Bochman, Thomas Clark, Renato Bologna, Gerrit Segers, Graham Head</i>	17:00-17:15

S 1016

Population genetics in the service of pest management

Symposium Organizers: Thomas W. Sappington(U.S.A.), Lizhi Luo(China), Xingfu Jiang(China)

Room 18

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S1016TH01	Reconstructing insect invasion routes with genetic tools <i>Thomas Guillemaud, Marc Ciosi, Eric Lambaert</i>	09:00-09:30
S1016TH02	Population genetics and disease ecology of mosquito species in Galapagos <i>Arnaud Bataille, Andrew A. Cunningham, Simon J. Goodman</i>	09:30-09:45
S1016TH03	Outbreeding depression and reluctant virgin oviposition in Californian populations of the bean thrips, <i>Caliothrips fasciatus</i> (Pergande) (Thysanoptera: Thripidae), reduce its invasive potential <i>Paul Rugman-Jones, Mark Hoddle, Richard Southamer</i>	09:45-10:00
S1016TH04	Invasion genetics of the western flower thrips in China: Evidence for genetic bottleneck, hybridization and bridgehead effect <i>Xian-Ming Yang, Jing-Tao Sun, Xiao-Feng Xue, Xiao-Yue Hong</i>	10:00-10:15
S1016TH05	Putative source and social form of the red imported fire ant, <i>Solenopsis invicta</i> disclosed by molecular markers in China <i>Xingfu Jiang, Jingguo Shao, Lizhi Luo, Lei Zhang</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1016TH06	Distinct invasion pattern of an alien whitefly correlated with different dominant haplotypes <i>Dong Chu, Xianchao Li, Youjun Zhang, Fanghao Wan</i>	11:00-11:15
S1016TH07	Using haplotypes to map fall armyworm (<i>Spodoptera frugiperda</i>) migration pathways in the United States <i>Rodney Nagoshi, Shelby Fleischer, Robert Meagher, John Westbrook</i>	11:15-11:30
S1016TH08	Estimation of emigration from a forest insect outbreak using population genetic tools <i>Anne Cassel Lundhagen, Cecilia Rönnes, Andrea Battisti, Johan Wallin, Stig Larsson</i>	11:30-11:45
S1016TH09	On the potential of population genetics to refine scales for locust management <i>Marie-Pierre Chapuis, Karine Berthier, Julie-Anne Papipe, Gregory Sward</i>	11:45-12:00

Code No.	Presentation Title Authors_Presenting author	Time
S1016TH10	Understanding dispersal and movement of <i>Aphis glycines</i> to improve durability of aphid resistant soybean Andrew Michel, M.A.R. Milan, Ramon Bansal, Jacob Wenger, Lucia Orantes	12:00-12:15
S1016TH11	Genome scans for adaptation to transgenic Bt maize Nicholas Miller, Bruce Hibbard, Thomas W. Sappington	12:15-12:30
	Lunch	12:30-14:00
S1016TH12	Paratransgenic symbionts that express targeted toxins in the termite gut Claudia Hüssener, Chinmay Tikhe, Jennifer Delatte Donaldson	14:00-14:15
S1016TH13	Gene flow and neighborhood area in European corn borer (Lepidoptera: Crambidae) in the U.S., and implications for insect resistance management Thomas W. Sappington, Kyung Seok Kim, Jing Sun, Shelby Fleischer	14:15-14:30
S1016TH14	Genetic differentiation and gene flow among different geographical populations of <i>Ostrinia furnacalis</i> in China based on multiple molecular markers Jing Li, Zhenying Wang, Sergine Ponsard, Denis Bourguet, Kanglai He	14:30-14:45
S1016TH15	Pattern of dispersal and gene flow of cotton boll weevil in North America Kyung Seok Kim, Thomas W. Sappington	14:45-15:00
S1016TH16	Regional and global population structure of the oriental fruit moth, <i>Grapholitha molesta</i> Dominique Mazzè, Heather Kirk, Marco Tomasi, Silvia Dain	15:00-15:15
S1016TH17	The Molecular Phylogeny and population genetics of the rice grasshopper, <i>Oxya</i> genus Enbo Ma, Tao Li, Min Zhang, Zhumei Ren, Yang Zhong, Jianzhen Zhang	15:15-15:30

S 1017

Rice hoppers: Problems, surveillance, and management strategies

Symposium Organizers: Yoo Han Song (Republic of Korea), K. L. Heong (Philippines),

Jian Cheng (China)

Room 19

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
S1017TH01	Planthoppers threatening rice in Asia again? Why? K.L. Heong	09:00-09:30
S1017TH02	Occurrence and migration of <i>Nilaparvata lugens</i> in the Vietnamese Mekong Delta Akira Otake, Toshihiro Sakamoto, Ho Van Chien, Masaya Matsumura	09:30-09:45
S1017TH03	The return migration of rice planthoppers: Gaps in the loop Baoping Zhai, Dabing Zheng, Haibo Yang, Guo Zhang, Xiao Chen	09:45-10:00
S1017TH04	How are <i>Nilaparvata lugens</i> in East Asia adapted for long-distance migration: Differences in a few migration-related characters between the planthoppers in the tropics and temperate regions? Takeshi Wada	10:00-10:15
S1017TH05	Genetic background of the migratory capability of the brown planthopper, <i>Nilaparvata lugens</i> Sumio Tojo, Sunao Morooka	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S1017TH06	Regional surveillance of rice planthoppers in Asian rice area Yoo Han Song	11:00-11:15
S1017TH07	On-farm management of rice varieties for increased efficiency in planthopper population regulation Finbarr G. Horgan	11:15-11:30
S1017TH08	Plant penetration behavior of the rice sap-sucking Homopterans on susceptible and resistant rice varieties using DC-EPG system Bo Yoon Seo, Jin Kyo Jung, Youn-Hee Kwon, Gil-Hah Kim	11:30-11:45
S1017TH09	Rice volatile signals are important regulators of rice-brown planthopper interactions Yonggen Lou	11:45-12:00

Code No.	Presentation Title Authors_Presenting author	Time
S1017TH10	Exploring the factors underlying variation in brown planthopper-rice interactions <i>Yolanda H. Chen</i>	12:00-12:15
S1017TH11	Recent situation of rice viruses transmitted by planthoppers in Southeast Asia <i>Il-Ryang Choi</i>	12:15-12:30
Lunch		12:30-14:00
S1017TH12	Imidacloprid resistance in the brown planthopper: Different stories in lab and field <i>Zewen Liu, Zhiping Ding, Xiangkun Meng, Beina Guo, Feng Jiang</i>	14:00-14:15
S1017TH13	Species and area specific development of insecticide resistance in Asian rice planthoppers <i>Masaya Matsumura, Sachiyo Morimura, Akira Otuka</i>	14:15-14:30
S1017TH14	Mechanisms of pesticide-induced resurgence of the brown planthopper (BPH) <i>Nilaparvata lugens</i> <i>Xiangjian Xu, Citi Jin Wu</i>	14:30-14:45
S1017TH15	Ecological engineering for pest management in rice: Reconciling on-farm biodiversity and food security <i>Geoff Gurr, Zhong Xian Lu, Kong L. Heang, David J. Perovic, Jiaon Cheng, Chalot Channo, Gui Hua Chen, Ping Yang Zhu, Ho Van Chien, Zengrong Zhu</i>	14:45-15:00
S1017TH16	Flowering plants improve biological parameters of rice planthopper natural enemies <i>Zhangxian Lu, Pingyang Zhu, XL. Heong, GM. Gurr</i>	15:00-15:15
S1017TH17	Comparative analysis of chemosensory system and metabolic enzymes of three rice planthoppers <i>Wenwu Zhou, Xin Yuan, Ping Qian, Qing-Mei Liang, Chuan-Xi Zhang, Jiaon Cheng, Geoff M Gurr, Zeng-Rong Zhu</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1017TH18	The genome of <i>Nilaparvata lugens</i> <i>Chuan-Xi Zhang, Jia-An Cheng</i>	16:00-16:15
S1017TH19	Progress in genome sequencing of the brown planthopper, <i>Nilaparvata lugens</i> <i>Yoshitaka Suetsugu, Tetsuya Kobayashi, Takaaki Daimon, Akiyo Joroku, Yuki Nakamura, Seigo Kuwazaki, Takumi Koyakawa, Yulchi Katayose, Hiroyuki Kanamaru, Kanako Kuriita</i>	16:15-16:30
S1017TH20	Imidacloprid resistance in the brown planthopper: Genes for nAChR subunits and P450 enzymes <i>Hiroaki Noda, Yuki Nakamura, Sawaoka Kamei, Yoko Kotzumi, Yoshitaka Suetsugu, Toshihiro Kozaki, Takaaki Daimon, Tetsuro Shinoda, Kimiko Yamamoto, Sachiyo Morimura</i>	16:30-16:45
S1017TH21	Sex ratio distortion by a male-killing <i>Spiroplasma</i> in the small brown planthopper, <i>Loxophlebotomus striatellus</i> <i>Sachiyo Morimura, Masaya Matsumura, Hiroaki Noda</i>	16:45-17:00
S1017TH22	Genes Regulating wing dimorphism of <i>Nilaparvata lugens</i> <i>Jian Xue</i>	17:00-17:15
S1017TH23	Paired genome sequence reveals insights into intimate symbiosis in brown planthopper <i>Haiwei Fan, Jiaon Cheng, Chuanyi Zhong</i>	17:15-17:30

S 1018

Management of migratory pests

Symposium Organizers : Haikou Wang (Australia)

Room 17

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
S1018F01	Fifty years of monitoring insect migration in the United Kingdom at Rothamsted <i>Jason Chapman, James Bell, Chris Shortall, Richard Harrington</i>	09:00-09:30
S1018F02	Management of Desert Locust <i>Keith Cressman</i>	09:30-10:00
S1018F03	Management of migratory <i>Helicoverpa</i> spp. moths in Australia <i>Peter Charles Gregg, Alice P. Del Socorro, Kris Le Mottee</i>	10:00-10:30
Coffee/Tea Break		10:30-11:00

S1018F04	Monitoring and forecasting Australian plague locust metapopulation <i>Hailou Wang, Edward Deveson, Alistair Drake</i>	11:00-11:15
S1018F05	Understanding the migration of <i>Helicoverpa armigera</i> with radar and modelling the area-wide population dynamics in northern China <i>Hongqiang Feng, Kangming Wu</i>	11:15-11:30
S1018F06	Radar observation of the migration of rice leaf roller <i>Cnaphalocrocis medinalis</i> Guenee in southern China <i>Chunxian Jiang, Xiu Yang, Huihui Qi, Yunhui Zhang, Dengfa Cheng</i>	11:30-11:45
S1018F07	Overseas migration of the small brown planthopper, <i>Loodelphax striatellus</i> , in East Asia and its prediction <i>Akira Otsuka, Yijun Zhou, Gwan-Seok Lee, Masaya Matsumura, Yeqin Zhu, Zewen Liu, Sachio Morimura</i>	11:45-12:00
S1018F08	The spring migration of the small brown planthopper, <i>Loodelphax striatellus</i> , in eastern China <i>Baoqing Zhai, Yangyang Hou, Yuan He, Yanggang Diao, Li Wang, Haiyan Zhang, Haibo Yang, Yue Zhao, Chao Han, Yanbo Xu</i>	12:00-12:15
S1018F09	Do rain initiate the take-off of the White-backed Planthopper, <i>Sogatella furcifera</i> during night? <i>Min Zhu, Lu Ji, Haiyan Zhang, Yang Hu, Ju Luo</i>	12:15-12:30
Lunch		12:30-14:00
S1018F10	Subtropical High constructed meteorological conditions of the migratory field of <i>Nilaparvata lugens</i> <i>Gao Hu, Xianan Cheng, Baoqing Zhai</i>	14:00-14:15
S1018F11	Shift of outbreak area of meadow moth in China and the response to climate warming <i>Xiao Chen, Baoqing Zhai</i>	14:15-14:30
S1018F12	Geographic variation of dormancy in the small brown planthopper, <i>Loodelphax striatellus</i> (Homoptera: Delphacidae) <i>Yangyang Hou, Xiaoli Zhang, Baoqing Zhai</i>	14:30-14:45
S1018F13	A preliminary study on the behaviour mechanism of phototactic response of rice planthoppers <i>Haibo Yang, Baoqing Zhai</i>	14:45-15:00

S 1019

Ecological modeling for IPM

Symposium Organizers: Young-Seuk Park(Republic of Korea), Chuleui Jung(Republic of Korea)

Room 19

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
S1019F01	Modeling for insect pest management in fruit tree in Korea <i>Chuleui Jung, Jong-Geo Kim, Jeong Jaan Ahn</i>	09:00-09:15
S1019F02	Matrix models for enhancing the role of biological control in IPM <i>Nick Mills</i>	09:15-09:30
S1019F03	Modeling the spring emergence of <i>Grapholita molesta</i> in apple orchard <i>Jeong Jaan Ahn, Lalit Prasad Sati, Chuleui Jung</i>	09:30-09:45
S1019F04	Model simulation for IPM using DYMEX <i>Jung-Jaan Park, Kijang Cho</i>	09:45-10:00
S1019F05	Development of the web-based information system for modeling insect population using site-specific weather data <i>Wee Sae Kang, Jongtaek Park, Mun Il Ahn, Yong Soon Shin, Yang Kyu Han, Eun Woo Park</i>	10:00-10:15
S1019F06	IPM Module for the Sustainable Management of Sugarcane Stem Borer, <i>Chilo infuscatellus</i> (Pyralidae, Lepidoptera) <i>Shahbaz Ahmed</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1019F07	Modelling population dynamics of pest insects in paddy field <i>Yongsu Kwon, Namil Chung, Myung Bae, Fengqing Lu, Young-Seuk Park</i>	11:00-11:15
S1019F08	Modelling complex interactions among organisms in paddy field <i>Il-Hyo Jung</i>	11:15-11:30
S1019F09	Rice Farm 7: An integrated virtual system to predict the effects of climate change on the rice-ecosystem <i>Seung-Ho Kang</i>	11:30-11:45
S1019F10	Catastrophe model and its application in insect ecology <i>Huiyan Zhao, Liang Zhang, Piyaratne Madi, Zheng Li, Qingxiang Meng</i>	11:45-12:00
S1019F11	Modeling strategies for pine wood nematode control <i>Chunlei Xia, Tae-Soo Chon, Chan Sik Jung, Young-Seuk Park</i>	12:00-12:15
Lunch		12:30-14:00

Section 11 Insect Biological Control

Conveners : Masami Takagi(Japan), Thomas Miller(U.S.A.)

S 1101

Microbial pesticides

Symposium Organizers : Paulo Teixeira Lacava(Brazil), João Lúcio Azevedo(Brazil)

Room 12

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S1101M01	Endophytic bacteria: Potential of biological and symbiotic control <i>Paulo Teixeira Lacava, Wellington Luiz Araujo, Thomas Albert Miller, João Lúcio Azevedo</i>	11:00-11:15
S1101M02	Endophytic microorganisms : A review on insect control and recent advances on tropical countries <i>João Lúcio De Azevedo</i>	11:15-11:30
S1101M03	Fungal endophytes and their potential for biocontrol in cotton <i>Gregory A. Sward, Maria Julissa Ek-Ramos, Diana Castillo Lopez, Wenqing Zhou, Cesar Valencia</i>	11:30-11:45
S1101M04	Characterization and localization of novel proteins from <i>Antonospora locustae</i> (Protozoa: Microsporidae) <i>Zuyang Luo, He Leng, Guizhong Wang, Long Zhang</i>	11:45-12:00
S1101M05	Preference of different fruit scents to the natal fruit fly, <i>Ceratitis rosa</i> in a choice trial <i>Mkandeni Margaret Lebasa</i>	12:00-12:15
S1101M06	Molecular pathogenesis of fungal entomopathogen <i>Metarhizium robertsii</i> <i>Qiang Gao, Zhibing Duan, Wei Huang, Changshu Wang</i>	12:15-12:30
S1101M07	Microbial endophytes as source of genes related to biological control <i>Wellington Luiz Araujo, Juan Diego Rojas, Aline Aparecida Camargo Neves, Almir Jose Ferreira, Enry Tityo Mana, Gabriel Padilla</i>	12:30-12:45
Lunch		12:30-14:00

S 1102

IOBC Global Symposium "International Exchange and Risk Assessment of Biological Control Agents"

Symposium Organizers : Joop van Lenteren(The Netherlands)

Room 12

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S1102M01	From random release to risk assessment: Developments during the last twenty years <i>Franz Bigler, Antoon J. Loomans, Joop C. Van Lenteren</i>	14:00-14:30
S1102M02	Selection of non-target species and host specificity testing of natural enemies: Cabbage seedpod weevil (<i>Ceutorhynchus obstrictus</i>) parasitoids as a case study <i>Marc Kenis, Tim Haye, Ulrich Kuhlmann</i>	14:30-14:45
S1102M03	Measuring and predicting indirect non-target effects of new natural enemies <i>Russell Messing</i>	14:45-15:00
S1102M04	Host range testing for a new biocontrol agent for <i>Uraba lugens</i> (Lep.: Noctuidae) in New Zealand <i>Uta Berndt, Toni May Withers, Barbara Barratt</i>	15:00-15:15
S1102M05	Regulations for release of biological control agents in Brazil: The case of <i>Cotesia flavipes</i> <i>Vanda H.P. Bueno, Jose Roberto Postali Parra, Danilo S. Pedrazaoli</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1102M06	Environmental risk assessment of biological control agents in Canada: The cabbage seedpod weevil, <i>Ceutorhynchus obstrictus</i> , case study <i>Peter G. Mason, Tim Haye, Dave R. Gillespie, Jacob H. Nisall, Gary A.P. Gibson, Ulrich Kuhlmann, Pat Bauchard</i>	16:00-16:15
S1102M07	The Mediterranean basin as source of invertebrate biological control agents for northern Europe: Safe "exotics"? <i>Josep Anton Jacas, Alberto Urbaneja</i>	16:15-16:30
S1102M08	Current regulations for import and release in Europe: How it is and how it should be <i>Johan Coert VanLenteren, Antoon J.M. Loomans, Jeffrey S. Bale, Franz Bigler</i>	16:30-16:45

S 1103

Present status and future prospects of biological control in Asia

Symposium Organizers : Masami Takagi(Japan), Man Young Choi(Republic of Korea)

Room 22

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S1103M01	History and present status of insect biological control in Japan <i>Masami Takagi</i>	14:00-14:15
S1103M02	Research on the biological control of insect pests in Korea <i>Man-Young Choi</i>	14:15-14:30
S1103M03	Present status and future prospects of biological control in Thailand <i>Wiwat Suasard</i>	14:30-14:45
S1103M04	Review of classical biological control in Japan: A case study of chestnut gall wasp <i>Kaori Yara, Seichi Moriya</i>	14:45-15:00
S1103M05	Biological control of the camellia spiny whitefly, <i>Aleurocanthus camelliae</i> , in Japanese tea fields <i>Atsushi Kasai, Koji Yamashita, Yutaka Yoshiyasu</i>	15:00-15:15
S1103M06	Where is the real IPM in Asian biological control? Importance of registration and patent in IPM <i>Tetsuo Wada</i>	15:15-15:45
Coffee/Tea Break		15:30-16:00
S1103M07	Present status and future prospects of natural enemy industry in Korea <i>Sung-Seung Yang</i>	16:00-16:15
S1103M08	Commercial production of green lacewings, <i>Mallada basalis</i> (Walker) (Neuroptera: Chrysopidae) and its petty patent <i>Sopon Uraichuen, Rattigan Submok, Anuchit Chinnajirawong, Wiwat Suasard</i>	16:15-16:30
S1103M09	Fitness of the egg parasitoid <i>Trichogramma brassicae</i> is affected by size and shape of their host eggs <i>Tong-Xian Liu, Yang-Mei Zhang</i>	16:30-16:45
S1103M10	Optimizing <i>Cotesia flavipes</i> (Cameron) release rates, and maximizing sugarcane yields for sugarcane borer complex in Thailand <i>Tewee Maneerat, Wiwat Suasard, Orapan Kermasa, Athitya Kaewpadit</i>	16:45-17:00
S1103M11	Utilization of natural enemies for sustainable control of the outbreaks of cassava mealybugs complex in Thailand <i>Sirirwan Tunkumthong, Sopon Uraichuen, Charida Sattayawong, Rattigan Submok, Wiwat Suasard</i>	17:00-17:15
S1103M12	Conservation biological control of pest aphids by vegetation diversification: A successful example in potato fields of Japan <i>Kengo Nakahira</i>	17:15-17:30

S 1104

Biological control of emerging pests on transgenic crops

Symposium Organizers : Robert Mensah(Australia), Lewis Wilson(Australia)

Room 22

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1104U01	Microbial control of cotton pests: Use of a naturally occurring entomopathogenic fungus (<i>Aspergillus</i> sp.) for managing <i>Creontiades dilutus</i> and beneficial insects on transgenic cotton crops in Australia <i>Robert Kofi Mensah, Leah Austin</i>	14:00 - 14:30
S1104U02	Relative abundance of natural enemies of crop pests on Bt-transgenic and non-transgenic cottons in India <i>Mukesh Kumar Dhillon, Hari C. Sharma</i>	14:30-15:00
S1104U03	Influence of transgenic Bt cotton on predaceous arthropod assemblage and their impact on non-target pest suppression in Texas <i>Ram B. Shrestha, Megha N. Parajulee</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00

Code No.	Presentation Title Authors_Presenting author	Time
S1104TU04	Honeybee foraging and pollination efficacy in Australian Bt cotton <i>Marwan Keshlaf, Robert Spooner-Hart, Robert Mensah</i>	16:00-16:30
S1104TU05	Biological control of a cotton pest: <i>Bemisia tabaci</i> in Arizona transgenic cotton as a case study <i>Steven E. Naranjo, Peter Ellworth</i>	16:30-17:00
S1104TU06	Ecology of <i>Trichogramma</i> egg parasitoids in Australian transgenic cotton landscapes and their utilization for biological control <i>Andrew Davies, Christopher Carr, Brad Scholz, Myron Zalucki</i>	17:00-17:15
S1104TU07	Emerging pests and silver leaf whitefly: a challenge for Australian cotton systems <i>Lewis Wilson, Simone Helmsdon</i>	17:15-17:30

S 1105

The Status entomopathogenic nematodes in the BioControl: Ushering in the new era
Symposium Organizers : Ho Yul Choo(Republic of Korea)

Room 9

August 22, Wednesday

Code No.	Presentation Title Authors_Presenting author	Time
S1105W01	Potential markets for stable industrialization of EPN business in Korea <i>Ho Yul Choo, Hyeon Hwan Kim, Dong Woon Lee, Young Moo Choo</i>	09:00-09:30
S1105W02	The status of entomopathogenic nematodes in biocontrol: Ushering in new era <i>Roman Khedo Georgis</i>	09:30-10:00
S1105W03	Wood borer control using entomopathogenic nematodes <i>Hiroshi Tanabe</i>	10:00-10:30
Coffee/Tea Break		10:30-11:00
S1105W04	Competitiveness assessment through current market and R&D trend of entomopathogenic nematode <i>Kyung Ban Koo, Ho Yul Choo, Hyung Chul Lee, Young Jin Lee, Young Sang Park</i>	11:00-11:30
S1105W05	Production technology and field application of entomopathogenic nematodes in China <i>Richou Han, Xuehong Qiu</i>	11:30-12:00
S1105W06	Entomopathogenic nematology in North America <i>David Shapiro-Ilan</i>	12:00-12:30
Lunch		12:30-14:00

S 1106

Insect pathology
Symposium Organizers : Yeon-Ho Je(Republic of Korea), Hyun-Woo Park(U.S.A.)

Room 22

August 22, Wednesday

Code No.	Presentation Title Authors_Presenting author	Time
S1106W01	Bt Crops: Triumph of a green technology based on <i>Bacillus thuringiensis</i> <i>Brian A. Federici</i>	09:00-09:30
S1106W02	Replication and transmission of the sexually transmitted insect virus HsNV-2 <i>John P. Burand, Woojin Kim</i>	09:30-09:45
S1106W03	The status and trends of Bt pesticides research in China <i>Jie Zhang, Changlong Shu, Fuping Song</i>	09:45-10:00
S1106W04	Possibility of <i>Lecanicillium</i> spp. for multiple pest control <i>Jeong Jun Kim, Mark Goettel, Dave Gillespie</i>	10:00-10:15
S1106W05	Influence of synthetic media on mycelial growth and sporulation of the entomopathogenic <i>Aschersonia</i> <i>placenta</i> Berkeley & Broom <i>Dokguaymal Namrahud, Sopon Uraichuen, Tewee Maneerat, Wiwat Suzaand, Anuchit Chingariyawang</i>	10:15-10:30

Coffee/Tea Break		10:30-11:00
Code No.	Presentation Title Authors, Presenting author	Time
S1106W06	Current status of microbial control using insect viruses in Japan <i>Madoka Nakai</i>	11:00-11:15
S1106W07	The negative control of crystal protein gene expression in <i>Bacillus thuringiensis</i> YBT-1518 <i>Xiaona Luo, Donghai Peng, Suxia Guo, Lilang Ruan, Ming Sun</i>	11:15-11:30
S1106W08	AcMNPV infection suppresses the expression of host immune and juvenile hormone-regulated genes in <i>Spodoptera exigua</i> larvae <i>Jae Young Choi, Yeon Ho Je</i>	11:30-11:45
S1106W09	Events of mycosis hotbeds in Colorado beetle populations in the South Urals from 2008 to 2011 <i>Elena Surina, Konstantin Kitaev, Galina Benkovskaya</i>	11:45-12:00
S1106W10	Recent studies on the thermotolerance of entomopathogenic fungi <i>Jae Su Kim, Yeon Ho Je, Bruce L. Parker</i>	12:00-12:15
S1106W11	Identification of three new Cry proteins synthesized by <i>Bacillus thuringiensis</i> subsp. <i>Jegathesan</i> <i>Yunjun Sun, Liguo Xia, Qing Zhao, Brian A. Federici, Hyun Woo Park</i>	12:15-12:30
Lunch		12:30-14:00

S 1107

Can we better select and manipulate biological control agents when we know their genomics?

Symposium Organizers: Beukeboom Leo(The Netherlands), Jack Werren(U.S.A.)

Room 22

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S1107TH01	<i>Nasonia</i> genomics and the genetic improvement of parasitoids for biological pest control <i>John H. Werren</i>	09:00-09:15
S1107TH02	Genetics of hymenopteran sex determination <i>Eveline C. Verhulst, Louis Van de Zande, Leo W. Beukeboom</i>	09:15-09:30
S1107TH03	Evolution and genomic architecture of host specificity in aphelinid parasitoids of aphids <i>Keith R. Hopper</i>	09:30-09:45
S1107TH04	Global analysis of the transcriptome of teratocytes reveals its function in development of <i>Cotesia vestalis</i> larvae <i>Xuesin Chen, Min Shi, Fei Gao, Pan Jing</i>	09:45-10:00
S1107TH05	Combining symbiont-manipulated phenotypes with genomics to unravel genetic bases of parasitoid life history traits <i>Fabrice Vavre, Julien Vavre</i>	10:00-10:15
S1107TH06	The genetics and genomics of reproductive decisions in parasitoid wasps <i>David Shuker</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1107TH07	<i>Athalia rosae</i> : An emerging genetic model system for sawflies <i>Masatsugu Hatakeyama</i>	11:00-11:15
S1107TH08	Genetics and genomics of fig wasp <i>Jin-Hua Xiao, Da-Wei Huang</i>	11:15-11:30
Lunch		12:30-14:00

S 1108

Biodiversity and biological control

Symposium Organizers : Stephen Wratten(New Zealand)

Room 22

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S1108F01	Wratten. Introduction. Get rich or get even? Linking biodiversity and natural pest control <i>William Emerson Snyder, David W. Crowder</i>	14:00-14:15
S1108F02	Flower power? Effects of apple orchard groundcover management on green apple aphids (<i>Aphis</i> spp.) their predators and on the canopy insect community <i>Viktor Marko, Gabor Jenser, Elad Kondonosy, Levente Abraham, Klara Balazs</i>	14:15-14:30
S1108F03	The biology of <i>Holepyris hawaiiensis</i> (Hymenoptera: Bethyliidae) parasitoid on <i>Ephestia cautella</i> (Lepidoptera: Pyralidae) under laboratory condition <i>Eliahe Sadeghi, Vahid Bahrami, Aref Marouf</i>	14:30-14:45
S1108F04	Seasonal patterns in the biodiversity of natural enemies in California walnut orchards <i>Nick Mills</i>	14:45-15:00
S1108F05	Disentangling the spider's web <i>James Douglas Harwood</i>	15:00-15:15
S1108F06	Biological control in Kentucky winter wheat: Using molecular tools to assess sustainable management techniques <i>Katelyn Ann Kowles, Douglas Johnson, James Harwood</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1108F07	Improved fitness of the parasitoid <i>Aphytis melinus</i> receiving sugar subsidies in the field <i>Alejandro Tena, Apostolos Pekas, Felix Wackers, Alberto Urbaneja</i>	16:00-16:15
S1108F08	Potential predators that may contribute to pests control in future irrigated areas around the newly constructed Hamdab Dam in Northern Sudan <i>Abdalla Abdelrahman Satti, Nizar Abdalla Bilal</i>	16:15-16:30
S1108F09	Biodiversity and biocontrol: Putting it all together in Asian rice <i>Geoff M. Gurr, Zhongxian Lu, Kong L. Heong, David J. Perovic, Pingyang Zhu</i>	16:30-16:45
S1108F10	Niche engineering reveals complementary resource use among predators <i>David Crowder, Jake Gable, Tobin Northfield, Shawn Steffan, William Snyder</i>	16:45-17:00
S1108F11	Agricultural intensification drives landscape effects on host-parasitoid interactions in agroecosystems <i>Mattias Jonsson, Hannah L. Buckley, Bradley S. Case, Stephen Wratten, Roddy J. Hale, Raphael K. Cidham</i>	17:00-17:15
S1108F12	Agricultural policy-induced landscape changes: Effects on carabid abundance and their biocontrol potential <i>Pavel Kindlmann, Olga Ameixa</i>	17:15-17:30

Section 12 Urban, Stored Product and Post Harvest Entomology

Conveners: Yasuyuki Arakane (Republic of Korea), Nan-Yao Su (U.S.A.)

S 1201

Current control practices, area-wide management projects and foraging behaviors of subterranean termites

Symposium Organizers: Nan-Yao Su (U.S.A.)

Room 21

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
	Welcoming Remarks <i>Nan-Yao Su</i>	09:00-09:15
S1201M01	Economic impact of termite pests and current control practices <i>Michael K. Rust</i>	09:15-09:30
S1201M02	Termite pest species and their control options in Japan <i>Tsuyoshi Yoshimura, Kunio Tsunoda</i>	09:30-09:45
S1201M03	Termite pests and their management in Southeast Asia <i>Chow-Yang Lee</i>	09:45-10:00
S1201M04	Termite control practices and recent IPM project in mainland of China <i>Sujin Tan</i>	10:00-10:15
S1201M05	Termite pests and their control in Taiwan <i>Hou-Feng Li</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S1201M06	Non-repellent termiticides: Development, key features, efficacy and control <i>Raj Saran</i>	11:00-11:15
S1201M07	Development of baiting as a method to control subterranean termites <i>Michelle Smith, Leng Choy Lee</i>	11:15-11:30
S1201M08	IPM area-wide projects and population dynamics of subterranean termites <i>Nan-Yao Su</i>	11:30-11:45
S1201M09	A simulation study on the territorial competition of subterranean termites <i>WanJu Jeon, Sang-Hye Lee</i>	11:45-12:00
S1201M10	Community-based termite baiting projects in California <i>Vernard Richard Lewis</i>	12:00-12:15
S1201M11	Community-based subterranean termite projects in New Orleans, Louisiana <i>Claudia Riegel, Edgar Borges</i>	12:15-12:30
	Lunch	12:30-14:00
S1201M12	From research to end user: Community-based termite management in Chile <i>James Lawrence Smith</i>	14:00-14:15
S1201M13	DNA genotyping for assessment of treatment success in area-wide termite control <i>Claudia Hüsseneder, Dawn M. Simms</i>	14:15-14:30
S1201M14	The mechanics of tunnel excavation in subterranean termites, a preadaptation to fungal gardening <i>Paul Michael Bardonias, Nan-Yao Su</i>	14:30-14:45
S1201M15	Termite movement efficiency in their tunnel galleries <i>Seungwoo Sim, Sang-Hye Lee</i>	14:45-15:00

S 1202

Stored-product entomology

Symposium Organizers: James Throne(U.S.A.), Jinjun Wang(China)

Room 21

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1202TU01	Pest of stores and stored products-an archaentomological perspective <i>Eva Panagiotakopulu</i>	09:00-09:30
S1202TU02	Evolution of grain pests <i>Hiroki Obata</i>	09:30-09:45
S1202TU03	Invasive and synanthropic - updated aspects on the natural and cultural history of the webbing clothes moth <i>Tineola bisselliella</i> (Lepidoptera: Tineidae) <i>Rudy Plarre</i>	09:45-10:00
S1202TU04	The practicality of using molecular techniques for identification of stored-product insect pests <i>Zhihong Li, Bingyi Cui, Qianqian Yang</i>	10:00-10:15
S1202TU05	Use of molecular methods for species diagnostics and to identify dispersal patterns of stored-product insects <i>Katarina Mikac</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1202TU06	Recent advances of stored-product psocid research in China <i>Dan-Dan Wei, Wei Dou, Jin-Jun Wang</i>	11:00-11:15
S1202TU07	Recent advances in stored-product psocid research in North America <i>James Throne</i>	11:15-11:30
S1202TU08	Recent advances in development of attractants for stored-product insects <i>Thomas Wesley Phillips</i>	11:30-11:45
S1202TU09	Mating disruption for control of stored product insect pests <i>Christos Athanassiou</i>	11:45-12:00
S1202TU10	Synthetic pheromone-based mating disruption for cigarette beetles: Present and future perspectives <i>Rizana Mohamed Mahroof</i>	12:00-12:15
S1202TU11	Influence of interspecific competition between stored products pests on biological control with parasitoids <i>Jongyeon Ji, Youngwao Nam, Mun Il Ryoo</i>	12:15-12:30
Lunch		12:30-14:00
S1202TU12	Practicality of using cold treatments for control of stored-product insect pests <i>Panagiotis A. Illopolous</i>	14:00-14:15
S1202TU13	Occurrence and level of phosphine resistance in stored-product insects in Oklahoma U.S.A. <i>George Patrick Opit, Thomas Wesley Phillips, Michael J. Atkins, Mahroub M. Hasan</i>	14:15-14:30
S1202TU14	Practical implications of insecticide resistance in stored-product insects <i>Raul Narciso Corvalho Guedes</i>	14:30-14:45
S1202TU15	Structural fumigation efficacy in rice mills <i>James F. Campbell, Karrie A. Buckman, Rhodiraju Subramanyam</i>	14:45-15:00
S1202TU16	Recent advances in fumigation for control of insect pests in stored grain <i>YongLin Ren</i>	15:00-15:15
Coffee/Tea Break		15:30-16:00
S1202TU17	Recent advances in fumigation for control of insect pests in dried fruits and nuts <i>Spencer Walse</i>	16:00-16:15
S1202TU18	Current status of non-chemical methods for control of insect pests in dried fruits and nuts <i>Judy Ann Johnson</i>	16:15-16:30
S1202TU19	The importance of being postharvest <i>Lisa Neven, Wee Yee</i>	16:30-16:45
S1202TU20	Heat as a postharvest disinfestation treatment for floricultural crops <i>Arnold Hajime Hara</i>	16:45-17:00
S1202TU21	Oxygenated phosphine fumigation for postharvest pest control <i>Yang-Biao Liu</i>	17:00-17:15

S 1203

Pest ants of urban environments

Symposium Organizers: M. Rust(U.S.A.)

Room 21

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
S1203TH01	Pest ants of urban importance <i>Michael K. Rust</i>	09:00-09:30
S1203TH02	Argentine ants - understanding their behavior for effective management <i>Dong-Hwan Choe</i>	09:30-10:00
S1203TH03	Urban pest ants of South East Asia and their management <i>Chow-Yang Lee</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S1203TH04	History of invasive ant management with recommendations for improvement <i>Benjamin Hoffmann</i>	11:00-11:30
S1203TH05	Native invasive ants: A novel evolutionary trend in the age of global change <i>Grzegorz Buczkowski</i>	11:30-12:00
S1203TH06	The perspective of red imported fire ant control in Taiwan: past, present, and future <i>Rong Nan Huang, Chin-Cheng Yang, Cheng Jen Shih, Wen-Jer Wu</i>	12:00-12:15
S1203TH07	Advancements in baiting for management of pest ants: <i>Camponotus</i> spp, <i>Liometopum</i> spp and <i>Tapinoma</i> sessile <i>Laurel Dianne Hansen</i>	12:15-12:30
	Lunch	12:30-14:00

S 1204

Novel approaches for urban pest management

Symposium Organizers: Dong-Hwan Choe(U.S.A.)

Room 21

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
	Opening & Welcoming Remarks <i>Dong-Hwan Choe</i>	14:00-14:15
S1204TH01	Recent development in bait and trap technologies for yellow jacket control <i>Dangsheng Ulang</i>	14:15-14:30
S1204TH02	Preliminary studies on the development of a liquid bait for bed bugs <i>Alvaro Romero</i>	14:30-14:45
S1204TH03	Exploiting host molecules to augment the virulence of mycoinsecticides <i>Yanhua Fan, Dov Barovsky, Chloe Hawkins, Roberto M. Pereira, Almudena Ortiz-Urquiza, Engin Kilic, George Casella, Nemat O. Keyhani</i>	14:45-15:00
S1204TH04	Disruption of ant trail-following behavior with a high dose of synthetic trail pheromone <i>Eiriki Sunamara, Shun Suzuki, Koji Nishisue, Yukio Ishikawa, Mamoru Terayama, Sadahiro Tatsuki, Hiromori Sakamoto, Takehiko Fukumoto, Yosaburo Utsuno, Hideaki Mori</i>	15:00-15:15
S1204TH05	Teaching sustainable techniques for German cockroach control in low-income, multi-unit housing <i>Dini Miller, Tim McCoy</i>	15:15-15:30
	Coffee/Tea Break	15:30-16:00
S1204TH06	Trojan Horses for target specific urban pest management <i>Claudia Husseneder, Amit Sethi, Lane D. Foster</i>	16:00-16:15
S1204TH07	Advances in drywood termite detection, a comparative review <i>Vernard Richard Lewis</i>	16:15-16:30

S 1205**Cockroach management - Challenges and new innovations**
Symposium Organizers : Chow-Yang Lee(Malaysia), Changlu Wang(U.S.A.)**Room 21**

August 24, Friday

Code No.	Presentation Title <i>Authors Presenting author</i>	Time
S1205F01	German cockroach (Dictyoptera: Blattellidae) IPM: A cost / benefit analysis <i>Dini Miller, Frank Meek</i>	09:00-09:30
S1205F02	Effectiveness of baiting and IPM for managing German cockroaches in apartment buildings <i>Changlu Wang</i>	09:30-09:45
S1205F03	Insecticide resistance and its underlying mechanisms in the German cockroach <i>Chow-Yang Lee</i>	09:45-10:00
S1205F04	History and development of cockroach bait technology and future innovations <i>Mark A. Coffelt</i>	10:00-10:15
S1205F05	Bait aversion in the German cockroach <i>Nongang Nick Bao</i>	10:15-10:30
S1205F06	Green pest management approaches against cockroaches <i>Arthur G. Appel, Steven R. Sims, Maria J. Eva</i>	10:30-10:45
Coffee/Tea Break		10:30-11:00

S 1206**Bed bug resurgence and management – a global perspective**
Symposium Organizers : C. Wang(U.S.A.), Chow-Yang Lee(Malaysia)**Room 21**

August 24, Friday

Code No.	Presentation Title <i>Authors Presenting author</i>	Time
S1206F01	Survey of bed bug infestation in Southeast Asia and research updates <i>Chow-Yang Lee</i>	14:00-14:30
S1206F02	Bed bug infestation and management in Shenzhen, Guangdong province, China <i>Xiaojun Wen, Changlu Wang, Xingwen Li, Zengyu Huang, Tao Ma</i>	14:30-14:45
S1206F03	Bed bug management practices in the U.S.A. <i>Ronald Deane Harrison</i>	14:45-15:00
S1206F04	Evaluation of sustainable methods for bed bug control in low-income facilities <i>Dini Miller, Molly Stedfast</i>	15:00-15:15
S1206F05	Chemical ecology of bed bugs: Practical applications <i>Changlu Wang, Harinderpal Singh, Richard Cooper</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1206F06	Refining non-chemical control tactics against the bed bug, <i>Cimex lectularius</i> <i>Stephen A. Kells, Joelle F. Olson, Michael J. Goblirsch</i>	16:00-16:15
S1206F07	Importance of low level detection and the role of monitoring in bed bug management <i>Richard Cooper, Changlu Wang, Harinderpal Singh</i>	16:15-16:30
S1206F08	Recent progress in bed bug research in the U.S.A. <i>Alvaro Romero</i>	16:30-16:45
S1206F09	Beating the bugs: The Australian approach to combating the bed bug resurgence <i>Stephen Lindsay Doggett</i>	16:45-17:00

Section 13 Medical & Veterinary Entomology

Conveners : Kyoko Sawabe(Japan), Willem Takken(Netherlands)

S 1301

Molecular basis of vector-pathogen interactions

Symposium Organizers : Yeon Soo Han(Republic of Korea), Michael Riehle(U.S.A.)

Room 13

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S1301M01	Functional characterization of intracellular apolipo III in response to <i>Plasmodium</i> invasion in mosquito <i>Lalita Gupta, Ju Young Noh, Yong Hun Jo, Seunghun Oh, Sanjeev Kumar, Mi Yung Noh, Yong Seok Lee, Sung-Jae Cha, Soek Jae Seo, Iksoo Kim, Yeon soo Han, Carolina Borikau-Mury</i>	09:00-09:15
S1301M02	The mosquito STAT pathway and its role in <i>Plasmodium</i> development <i>Lalita Gupta, Kuldeep Gupta, Mihlesh Kojla, Anil Dhanan, Sanjeev Kumar</i>	09:15-09:30
S1301M03	Modulation of mosquito immunity during <i>Plasmodium</i> development <i>Sanjeev Kumar, Lalita Gupta, Mihlesh Kojla, Kuldeep Gupta, Naveen Kumar Singh</i>	09:30-10:00
S1301M04	A selective barrier in whitefly associated with vector-specific transmission of Tomato yellow leaf curl China virus <i>Jing Wei</i>	10:00-10:15
S1301M05	Increased insulin signaling in the midgut of <i>Anopheles stephensi</i> blocks development of the malaria parasite, <i>Plasmodium falciparum</i> <i>Michael A. Riehle, Vanessa Corby-Harris, Anna Drexler, Janya Antonova-Koch, Nazzy Pokpour, Shirley Luckhart</i>	10:15-10:30
S1301M06	Community engagement practices and genetically-modified mosquitoes <i>Anthony A. James</i>	10:30-10:45
	Coffee/Tea Break	10:30-11:00

S 1302

Forensic entomology

Symposium Organizers : Kabkaew L. Sukontason(Thailand), Martin H. Villet(South Africa)

Room 13

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
	Welcoming Remarks <i>Kabkaew L. Sukontason</i>	11:00-11:05
S1302M01	Integrating ecological and anthropogenic mechanisms into a framework for advancing forensic entomology research <i>Sherah Lynnette VanLaarhoven</i>	11:05-11:30
S1302M02	Estimating postmortem intervals from development of <i>Thanatophilus</i> (Silphidae) beetles <i>Martin Villet, Jaryd Ridgeway, John Midgley</i>	11:30-11:55
S1302M03	Population genetics in forensic entomology <i>Christine J. Picard</i>	11:55-12:20
	Lunch	12:30-14:00
S1302M04	Standards for high quality research on larval morphology of necrophagous flies <i>Krzysztof Szpila</i>	14:00-14:25
S1302M05	Volatile compounds at initial decomposition as attractants for the blow fly, <i>Chrysomya megacephala</i> (Fabricius) <i>Kittikun Moophayak, Kom Sukontason, Hiroshi Kurohashi, Kabkaew L. Sukontason</i>	14:25-14:50
S1302M06	Decomposers of carrion: Structural and functional relationships of micro- and macroorganisms removing vertebrate carcasses from terrestrial ecosystems <i>Jennifer L. Pechal, Mark E. Benbow, Tawni L. Crippen, Aaron M. Torone, Jeffery K. Tomberlin</i>	14:50-15:15
	Coffee/Tea Break	15:30-16:00
S1302M07	Recent studies on factors affecting larval development in forensically important Australian blowflies <i>James Wallman</i>	16:00-16:25
S1302M08	Three forensic insights from a review of ecological succession on carrion <i>Martin Villet</i>	16:25-16:50
	Closing Remarks <i>Martin Villet</i>	16:50-17:00

S 1303

Impact of climate change and natural disaster in arthropod vector
Symposium Organizers : Mutsuo Kobayashi(Japan), Kom Sukontason(Thailand)

Room 13

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
S1303TU01	Welcoming Remarks & Future prospect of northern expansion of <i>Aedes albopictus</i> in Japan <i>Mutsuo Kobayashi, Osamu Komagata, Naoko Nihei</i>	09:00-09:30
S1303TU02	Aerial vector control following natural disasters in the Southern United States <i>Mark Breidenbaugh</i>	09:30-10:00
S1303TU03	Geographical distribution of larval trombiculid mites in Korea (2005-2007) <i>Jong Yul Roh, Bong Gu Song, Won Il Park, Eun Hee Shin, Chan Park, Mi-Yeoun Park</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S1303TU04	Prefabricated trap: Application to monitor fly populations in global change <i>Kom Sukontason, Ratchadawan Ngoen-Aran, Kittikhun Maophayak, Tunwadee Kiang-Klaew, Kobbkiew L. Sukontason</i>	11:00-11:30
S1303TU05	Seasonal and annual occurrence of blow flies (Diptera: Calliphoridae) associated with longan orchards and a paddy field in Southern Chiang Mai, Thailand <i>Ratchadawan Ngoen-Aran, Kittikhun Maophayak, Tunwadee Kiang-Klaew, Kim N. Irvine, Kobbkiew L. Sukontason, Kom Sukontason</i>	11:30-12:00
S1303TU06	Outbreak of medically important pest insects in Tsunami affected areas in Tohoku District, Japan <i>Shinji Kasai, Yuichiro Tabaru, Mutsuo Kobayashi</i>	12:00-12:30
	Lunch	12:30-14:00

S 1304

Emerging and re-emerging mosquito-borne viruses
Symposium Organizers : Annal-Bella Falloux(France), Alain Kohl(UK)

Room 13

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
S1304TU01	Life traits of <i>Aedes mosquitoes</i> as factors of arboviruses emergence <i>Didier Fontenille, Sébastien Boyer, Hélène Delatte, Jean-Sébastien Dehecq</i>	14:00-14:30
S1304TU02	The mosquito <i>Aedes albopictus</i> and its vectorial status <i>Anubis Vega-Rua, Marie Vazetle, Laurence Moussion, Camilo Arias-Gueto, Karima Zouache, Anna-Bella Falloux</i>	14:30-15:00
S1304TU03	The mosquito immune response modulates vector competence for arthropod-borne viruses <i>Carol D. Blair</i>	15:00-15:30
	Coffee/Tea Break	15:30-16:00
S1304TU04	Wolbachia density-dependent inhibition to dengue Virus in three <i>Aedes mosquito</i> species <i>Zhiyang Xi, Xiaoling Pan, Guoli Zhou, Jiahong Wu, Guowu Blom, Peng Lu, Alexander S. Ralkei</i>	16:00-16:30
S1304TU05	Progress in understanding RNA interference (RNAi) as a key control mechanism of arbovirus replication and spread in mosquitoes. <i>Alain Kohl</i>	16:30-17:00

S 1305

Symbiotic microorganisms associated with medical, hygienic and veterinary pest arthropods
Symposium Organizers : Takema Fukatsu(Japan), Guido Favia(Italy)

Room 13

August 22, Wednesday

Code No.	Presentation Title Authors_Presenting author	Time
S1305W01	Introduction to symbiotic microorganisms associated with medical, hygienic and veterinary pest arthropods <i>Takema Fukatsu</i>	09:00-09:20
S1305W02	Symbiosis in ticks, and the microbial community associated with South-American tick vector of rickettsiosis <i>Bessam Chevrolat, Mariana G. Spaldorio, Mario Colucci, Sara Epiu, Daniele Daffornichio, Marcelo B. Labruna</i>	09:20-09:40

Code No.	Presentation Title Authors_Presenting author	Time
S1305W03	Midichloria, the bacterium that invades tick mitochondria <i>Claudia Bendi, Isacopo Gnappo Leardini, Beiser Chevala</i>	09:40-10:00
S1305W04	Lariskella arthropodarum, a novel facultative endosymbiont clade in the Rickettsiales associated with stinkbugs, fleas and ticks <i>Yu Matsuzawa, Yoshitomo Kikuchi, Xian-Ying Meng, Ryuichi Koga, Takema Fukatsu</i>	10:00-10:20
	Discussion	10:20-10:30
	Coffee/Tea Break	10:30-11:00
S1305W05	Cardinium of Ixodes scapularis: Its Characteristics and Genome Sequence <i>Hiroaki Noda, Yuki Nakamura, Akira Joutaku, Kimiko Yamamoto, Timothy J. Kurtti</i>	11:00-11:20
S1305W06	Mosquito symbionts as a tool for mosquito borne disease control <i>Guido Favia</i>	11:20-11:40
S1305W07	The mosquito gut microbiota in the war against human pathogens <i>George Dimopoulos</i>	11:40-12:00
S1305W08	Wolbachia genes acquired through lateral gene transfer contribute to feeding habit of the host bedbug <i>Naruo Nishikawa, Takahiro Hosokawa, Kenshiro Oshima, Masahiro Hattori, Takema Fukatsu</i>	12:00-12:20
	Discussion	12:20-12:30
	Lunch	12:30-14:00

S 1306

Insecticide resistance in medically important insects
(mosquitoes, bed bugs, lice...)

Symposium Organizers : Si Hyeock Lee (Republic of Korea)

Room 13

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
S1306TH01	Characterisation of imidacloprid resistance in the housefly <i>Musca domestica</i> (Diptera: Muscidae) <i>Jing Li, Qingmin Wang, Pei Liang, Xiwu Gao</i>	09:00-09:15
S1306TH02	Sustaining malaria control by tackling pyrethroid resistance in <i>Anopheles</i> mosquitoes <i>Rodolphe William Poupardin, Christopher M. Jones, Sara N. Mitchell, Craig S. Wilding, Hilary Ranson</i>	09:15-09:30
S1306TH03	Spread of overexpressing CYP9M10 (cytochrome P450) haplotypes in southern house mosquito and its possible implication for vector control <i>Kentaro Itokawa, Osamu Komagata, Shinji Kasai, Hitoshi Kawada, Takashi Tomita</i>	09:30-09:45
S1306TH04	Proliferation of pyrethroid-resistant bed bugs in Japan <i>Osamu Komagata, Shinji Kasai, Kentaro Itokawa, Takashi Tomita</i>	09:45-10:00
S1306TH05	Molecular mechanism and detection of pyrethroid resistance in the common bed bug, <i>Cimex lectularius</i> <i>Deok Ho Kwon, Keon Moak Seong, Ryeong Sup Yoon, John Marshall Clark, Si Hyeock Lee</i>	10:00-10:15
S1306TH06	Transcriptional analysis of development and detoxification in <i>Culex pipiens quinquefasciatus</i> <i>Liangzhen Yan, Pengcheng Yang, Feng Jiang, Enbo Ma, Chuanling Qiao, Le Kong, Feng Cui</i>	10:15-10:30
S1306TH07	Management of head louse resistance using molecular tools <i>Si Hyeock Lee</i>	10:30-10:45
	Coffee/Tea Break	10:30-11:00

S 1307

Bartonella in arthropod vectors

Symposium Organizers: Michael Kosoy(U.S.A.), Qiyong Liu(China), Shimon Harrus(Israel)

Room 16

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
	Welcoming Remarks <i>Shimon Harrus</i>	14:00-14:15
S1307TH01	Vector competence of hard ticks for <i>Bartonella</i> transmission <i>Sarah Irene Bonnet</i>	14:15-14:45
S1307TH02	Molecular evidence of <i>Bartonella quintana</i> in <i>Pediculus humanus capitis</i> (Pediculidae: Anoplura) infesting young people in selected villages in Laguna province, Philippines <i>Arlene Garcia Bertosa, Mutsuo Kobayashi, Kyoko Sawabe</i>	14:45-15:15
	Coffee/Tea Break	15:30-16:00
S1307TH03	Diversity of <i>Bartonella</i> spp. in flea vectors - insights from studies in Israel <i>Shimon Harrus, Danny Morick, Inna Khokhlova, Yuval Gottlieb, Boris Krasnov</i>	16:00-16:30
S1307TH04	Bat flies as vectors of <i>Bartonella</i> <i>Katharina Dittmar de la Cruz</i>	16:30-17:00
S1307TH05	<i>Bartonella</i> species in rodent fleas in Japan <i>Hidenori Kobeya, Saichi Maruyama</i>	17:00-17:30

S 1308

Malaria vector mosquitoes in Asia and Africa

Symposium Organizers: Leopoldo M. Rueda(U.S.A.), Noboru Minakawa(Japan)

Room 13

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
S1308F01	Ecology of malaria vectors and their <i>Plasmodium</i> parasites in Malaysia <i>Indra Vythilingam</i>	09:00-09:15
S1308F02	Surveillance of malaria vectors and <i>Plasmodium vivax</i> in Korea <i>Terry Allen Klein, Heung-Chul Kim, Won-Ja Lee, Hee-Choon Sam Lee, Dong-Ryu Lee, Tae-Sang Chang</i>	09:15-09:45
S1308F03	Taxonomic status and distribution of <i>Anopheles Hyrcanus</i> Group vectors of malaria in Asia <i>Leopoldo M. Rueda</i>	09:45-10:00
S1308F04	VectorMap, an online mapping resource for malaria vectors and related groups in Asia and Africa <i>Desmond H. Foley, Richard C. Wilkerson, Jason H. Richardson, Lewis S. Long, Leopoldo M. Rueda</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S1308F05	Influence of pyriproxyfen on the emergence and survival of malaria vectors in Thailand <i>Alokkot Panlawat</i>	11:00-11:15
S1308F06	Molecular identification and population structure of the malaria vector, <i>Anopheles sinensis</i> (Diptera: Culicidae) in China <i>Yajun Ma, Jianrong Xu, Yong Fan, Manni Yang, Jing Wu, Ying Ma</i>	11:15-11:30
S1308F07	Malaria vector control in western Kenya <i>Noboru Minakawa, Hitoshi Kawada, Gabriel O. Dida</i>	11:30-11:45
S1308F08	Geographical distribution of <i>Anopheles gambiae</i> and <i>An. arabiensis</i> in Kenya. <i>Kyoko Futami, Gabriel Dida, Noboru Minakawa</i>	11:45-12:00
S1308F09	Multimodal pyrethroid resistance in malaria vectors in western Kenya <i>Hitoshi Kawada</i>	12:00-12:30
	Lunch	12:30-14:00
S1308F10	Molecular identification of <i>Anopheles gambiae</i> complex species (Diptera: Culicidae) and its molecular forms in Liberia <i>Normeen Talat Fahmy, Peter Joseph Obenauer</i>	14:00-14:15
S1308F11	Ecological and evolutionary determinants of host species choice in African malaria vectors <i>Irene Lyimo</i>	14:15-14:30

Code No.	Presentation Title <i>Authors: Presenting author</i>	Time
S1308F12	Assessment of perceptions of community users and bioefficacy of permethrin incorporated Olyset™ net (LLIN) distributed 5 years before in India <i>P.K. Mittal, Ripu Daman Sood, Neera Kapoor, R.K. Razdan, V.K. Dua, A.P. Dash</i>	14:30-14:45
S1308F13	Can olfactory memory alter oviposition choice in malaria vectors? <i>Manuela Herrera-Varela, Jenny Lindh, Steve Lindsay, Ulrike Fittler</i>	14:45-15:00
S1308F14	A novel approach of evaluating and analyzing oviposition bioassays for malaria mosquitoes <i>Michael Nyanganga Okal, Jenny Lindh, Steve Lindsay, Ulrike Fittler</i>	15:00-15:15
S1308F15	Biological and behavioral characterization of <i>Anopheles funestus</i> -like species from Northern Malawi <i>Vezanegho Samuel Bumuh, Richard Hunt, Maureen Coetzee, Lizette Koekemoer</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00

Section 14 Invasive Species and Quarantine

Conveners: Fang-hao Wan(China), Ki-Jeong Hong(Republic of Korea)

S 1401

Ecological impacts of invasive insects

Symposium Organizers: Marc Kenis(Switzerland), Geoff M. Gurr(Australia)

Room 1

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1401TU01	Invasive species, conservation biology, and biological control - a three way collision: Now time to join forces Roy Van Driesche, Mark Hoddle, Charlotte Causton	09:00-09:30
S1401TU02	Ecological impacts of red imported fire ant <i>Solenopsis invicta</i> Buren (Hymenoptera: Formicidae) on ant community in China Biqiu Wu, Guangwen Liang, Yijuan Xu, Ling Zeng, Yongyue Lu	09:30-09:45
S1401TU03	Impacts of two alien ants, <i>Anoplolepis gracilipes</i> and <i>Pheidole megacephala</i> , on native ant fauna in Okinawa, Japan Naomi Kadowaki, Hitoshi Ohnishi, Hirotaka Tanaka, Kazuki Tsuji, Naoto Kamata	09:45-10:00
S1401TU04	Understanding invasion history and the eradication project of the Argentine ant in Japan Maki N Inoue, Koichi Goka	10:00-10:15
S1401TU05	Ecological and economic impact of the alien B and Q whiteflies of the <i>Bemisia tabaci</i> species complex in China Shu Sheng Liu	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1401TU06	The impact of the introduced parasitoid <i>Torymus sinensis</i> , a biological control agent of <i>Dryocosmus kuriphilus</i> , on the indigenous parasitoid <i>T. beneficus</i> on chestnut trees in Japan Kaori Yara	11:00-11:15
S1401TU07	The invasive bark beetle, <i>Ips grandicollis</i> , and climate change: dual risks to bio-control of the woodwasp <i>Sirex noctilio</i> Fazila Yousuf, Geoff M. Gurr, Catherine W. Gitau, Angus J. Carnegie, Robin A. Bedding, Richard Bashford	11:15-11:30
S1401TU08	Decline of native ladybird beetles caused by an invasive alien predator Oldrich Nedved, Helen E Roy, Tim Adriaens, Nick J.B. Isaac, Marc Kenis, Thierry Onkelinx, Gilles San Martin, Peter M.J. Brown, Louis Hautier, Remy Poland	11:30-11:45
S1401TU09	Reproduction and critical pupation weight in the invasive and native populations <i>Harmonia axyridis</i> (Coccinellidae, Coleoptera) Natalia Belokova	11:45-12:00
S1401TU10	Habitat disturbance benefits differentially exotic over native coccinellids in agricultural landscape mosaics Tania Zaviezo, Audrey Grez, Tatyana Rand, Francisca Castiella	12:00-12:15
S1401TU11	The spread of the Asian honeybee, <i>Apis florea</i> in Sudan: A test case for invasive insect species Magbel Ahmed Abdalla El-Niwel, Robin F.A. Moritz	12:15-12:30
Lunch		12:30-14:00

S 1402

Ecological attributes of invasive alien species

Symposium Organizers: Helen Roy(United Kingdom), Sandy M. Smith(Canada),

Philippa Gerard(New Zealand), Bao-Li Qiu(China)

Room 1

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1402TU01	Biological attributes contributing to the invasiveness of <i>Sitona lepidus</i> in New Zealand and the success of its introduced biological control agent <i>Microctonus aethiopoides</i> Philippa Jane Gerard, Colin Ferguson, Scott Hardwick, Mark McNeil, Craig Phillips	14:00-14:30

Code No.	Presentation Title Authors: Presenting author	Time
S1402TU02	Asymmetric reproductive interference between specialist and generalist predatory <i>Harmonia</i> ladybirds <i>Suzuki Noriyuki, Nanya Osawa, Takayoshi Nishida</i>	14:30-15:00
S1402TU03	Evaluating gene flow of the western corn rootworm in a European hybrid zone <i>Gerald Bermond, Aurelie Bin, Marc Ciosi, Thomas Guillemaud</i>	15:00-15:15
S1402TU04	Population genetics of interactions <i>Leptinotarsa decemlineata</i> and <i>Coccinella septempunctata</i> <i>Konstantin Kitaev, Maxim Udakov, Galina Benkovskaya</i>	15:15-15:30
	Coffee/Tea Break	15:30-16:00
S1402TU05	Population genetics of the first plataspid stink bug species complex (Hemiptera: Heteroptera: Plataspidae: Megacopta) reported in North America <i>Tracie M. Jenkins, Tyler D. Eaton</i>	16:00-16:15
S1402TU06	Cloning, expression and characterization of mitochondrial manganese superoxide dismutase from the Whitefly, <i>Bemisia tabaci</i> <i>Xianlong Gao</i>	16:15-16:30
S1402TU07	Aggressive interactions between <i>Solenopsis geminata</i> and both social forms of <i>S. invicta</i> in Taiwan <i>Li-Chuan Lai, Kuo-Hsun Hsu, Wen-Jer Wu</i>	16:30-16:45
S1402TU08	Little fire ant, <i>Wasmannia auropunctata</i> , established on Guam <i>Ross H Miller, Mala Raymond</i>	16:45-17:00
S1402TU09	Introduced Asian paper wasp in New Zealand: Diploid males and triploid females production due to bottleneck <i>Koji Tsuchida</i>	17:00-17:15
S1402TU10	The Potential geographical distribution of <i>Bactrocera correcta</i> (Diptera: Tephritidae) in China <i>Wenlong Ni, Zhihong Li, Jiajiao Wu, Yuliang Deng</i>	17:15-17:30

S 1403

Biotic interactions in the context of biological invasion

Symposium Organizers: Shu-Sheng Liu(China), Marcel Dicke(The Netherlands)

Room 3

August 23, Thursday

Code No.	Presentation Title Authors: Presenting author	Time
S1403TH01	Biological invasions and endosymbiosis in Arthropods, a case study: <i>Bemisia tabaci</i> <i>Helene Delatte, Nathalie Becker, Magalie Thierry, Jean-Michel Lett, Reynaud Bernard</i>	09:00-09:30
S1403TH02	Effects of behavior and habitat use on the spread and impact of invasive herbivores <i>David Crowder, Rami Horowitz, Yves Carriere</i>	09:30-10:00
S1403TH03	Invasion of the horse-chestnut leaf miner in Europe: Implications at all trophic levels <i>Marc Kenis, Christelle Pere, Sandrine Girardoz</i>	10:00-10:15
S1403TH04	Plant-mediated interactions between begomoviruses and invasive whiteflies <i>Junbo Lu, Xue-Ping Zhou, Shu-Sheng Liu</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S1403TH05	Direct and indirect impacts of infestation of <i>Myzus persicae</i> on <i>Bemisia tabaci</i> <i>Xinling Tan, Su Wang, Tong-Xian Liu</i>	11:00-11:15
S1403TH06	Global dynamics of the symbiosis between invasive ambrosia beetles, fungi and bacteria: Insights from high-throughput DNA sequencing <i>Jiri Hulcr, Ilina R. Rountree, Sarah E. Diamond, Lukasz L. Stelinski, Noah Fierer, Rob R. Dunn</i>	11:15-11:30
S1403TH07	A trial to evaluate a potential risk of tree-killing diseases by <i>Raffaella</i> -ambrosia beetle complex <i>Naoto Kamata, Sunila Sanguansub, Hideaki Goto</i>	11:30-11:45
S1403TH08	Impact of invasive insect herbivores on the foraging behavior of native parasitoids via changes in induced plant volatiles: A comparative study <i>Gaylord Desumant, Matthias Held, Ted Turlings</i>	11:45-12:00
S1403TH09	Ecology and evolution of invasive plant species and their natural enemies <i>Arjen Biere, Jeff Harvey, Wim Van der Putten, Koen Verhoeven</i>	12:00-12:15
S1403TH10	Does mutualism drive co-invasion? The case of <i>Solenopsis invicta</i> (Hymenoptera: Formicidae) and <i>Phenacoccus solenopsis</i> (Hemiptera: Pseudococcidae) <i>Aiming Zhou, Yangyue Lu, Ling Zeng, Yijuan Xu, Guangwen Liang</i>	12:15-12:30

S 1404

Biological control: Benefit sharing and the balance between benefits and risks

Symposium Organizers : Jacques Brodeur (Canada), Barbara Barratt (New Zealand),
Peter Mason (Canada), George Heimpel (U.S.A.),
Helen Roy (United Kingdom)

Room 1

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S1404TH01	Will Access and Benefit Sharing procedures impede biological control: The problem <i>Barbara L. P. Barratt, Jacques Brodeur</i>	09:00-09:30
S1404TH02	New Access & Benefit Sharing regulations: Is there a future for the biocontrol industry? <i>Johanna Klapwijk</i>	09:30-09:45
S1404TH03	The current status of the conflict between ABS and insect-resource industrialization in Korea <i>Ohsook Kwon</i>	09:45-10:00
S1404TH04	Access and benefit sharing - a growing challenge for biological control in Europe? <i>Franz Bigler, Matthew J. Cock, Karel Balckmans, Jaap C. Van Lenteren</i>	10:00-10:15
S1404TH05	The effects of Access and Benefit Sharing (ABS) on the utilization of biological control in Brazil <i>Jose Roberto Pastali Parra</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S1404TH06	Access and Benefit Sharing: Will taxonomic research be facilitated or not? <i>Andrew M. R. Bennett, Jeffrey Hunter Skavington, Frederic Beaulieu, Peter G. Mason</i>	11:00-11:15
S1404TH07	Challenges for the biological control sector in the implementation of the Nagoya Protocol <i>Marie Schloen, Jacques Brodeur</i>	11:15-11:30
	Lunch	12:30-14:00
S1404TH08	Climate change and biological control: State of knowledge, risks and opportunities <i>Philippa Jane Gerard, Matthew J. W. Cock, David R. Gillespie</i>	14:00-14:30
S1404TH09	Assessing the ecological risk posed by a recently established invasive alien predator <i>Mart Kents, Tim Adriaens, Peter M. J. Brown, Angelos Katsanis, Gilles San Martin, Etienne Branquart, Dirk Moes, Rene Eschen, Renate Zindler, Johan Van Vlaenderen</i>	14:30-15:00
S1404TH10	Does knowledge of natural host range always help predict host range in new areas of introduction? A case study with the braconid parasitoid <i>Microctonus aethiopoides</i> Loan <i>Barbara L. P. Barratt, Rolf G. Obergrieler, Diane M. Barton, Mohamed Maoua, Mark Stevens, Miguel A. Alonso-Zarazaga, Cor J. Vink, Colin M. Ferguson</i>	15:00-15:30
	Coffee/Tea Break	15:30-16:00
S1404TH11	Assessing risks of post-introduction shifts in host specificity of parasitoids introduced to control aphids <i>Keith R. Hopper</i>	16:00-16:30
S1404TH12	Biological control and the carbon cycle <i>George Eugenio Heimpel</i>	16:30-17:00

S 1405

Recent issues on exotic insects travelling through the continents

Symposium Organizers : Seunghwan Lee (Republic of Korea), Kim Hoelmer (U.S.A.)

Room 2

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S1405TH01	Brown marmorated stink bug, <i>Halyomorpha halys</i> (Stål): Impact of an Asian species introduced into North America <i>Tracy C. Leskey, Anne Nielsen</i>	09:00-09:15
X S1405TH02	Observations on current and future <i>Drosophila suzukii</i> distribution, impact and management in the United States <i>Vaughn Walton, Hannah Burrack, Rufus Isaacs, Peter Shearer</i>	09:15-09:30
S1405TH03	Urban and agricultural impact of <i>Megacopta cribraria</i> in the southeastern United States <i>Michael Dennis Toews, Tracie M. Jenkins, Dan Switer, Phillip Roberts, David Bardin, John All, Stormy Sparks, John Ruberson, Wayne Gardner</i>	09:30-09:45

Code No.	Presentation Title Authors, Presenting author	Time
S1405TH04	Asian citrus psyllid and Huanglongbing in the New World: Impact and management Phillip A. Stansly, Jawwad A. Qureshi	09:45-10:00
S1405TH05	<i>Monochamus</i> species as potential vectors of the pine wood nematode in Europe: What can be learnt from the Asian situation? Geraldine Roux, Edmundo Sousa, Juan Alberto Rojas Alonso, Alain Roques	10:00-10:15
S1405TH06	Asian soybean aphid in North America? Invasion and classical biological control George Eugenio Heimpel, Keith R. Hopper, Rosanna Giardano, Kim Hoelmer, Kangming Wu, Joon-Ho Lee	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S1405TH07	The citrus flatids, <i>Metcalfa pruinosa</i> , recent outbreak in the Korean Peninsula Seunghwan Lee, Minyoung Kim	11:00-11:15
S1405TH08	Invasion of leafminers, <i>Liriomyza</i> spp. (Diptera: Agramyzidae), in the eastern Palearctic region Yoshihisa Abe	11:15-11:30
S1405TH09	Invasion of exotic gall midges in East Asia Heung-Sik Lee, Tae-Jun Kang, Ki-Jung Hong	11:30-11:45
S1405TH10	Dispersal patterns of exotic forest pests in South Korea Won Il Choi, Young-Seuk Park, Sang-Hyun Kati	11:45-12:00
S1405TH11	The status quo of invasive alien insects species and plant quarantine in Korea Ki-Jeong Hong, Jang-Ho Lee, Gwan-Seok Lee, Seunghwan Lee	12:00-12:15
S1405TH12	Biological control options of the invasive tomato pest <i>Tuta absoluta</i> Alberto Urbaneja, Nicolas Desnoux	12:15-12:30
	Lunch	12:30-14:00
S1405TH13	Introduction of natural enemies against exotic insect pests in Japan Etai Yano	14:00-14:15
S1405TH14	Climate change and pest risk analysis Kyla Jane Finlay, Jo Elizabeth Luck	14:15-14:45
S1405TH15	Lessons from the global eradication and response database David Maxwell Suckling, John M. Kean, Lloyd D. Stringer, Patrick C. Tobin, Dan A. Herms, Danny C. Lee, Deborah G. McCullough, Therese Pluess, Takehito Yamamoto	14:45-15:15
	Coffee/Tea Break	15:30-16:00

Section 15 Acarology

Conveners: Hiroshi Amano(Japan), Terry Klein(U.S.A.)

S 1501

Bioactive molecules of ticks

Symposium Organizers: Kozo Fujisaki(Japan), Jinlin Zhou(China)

Room 14

August 20, Monday

Code No.	Presentation Title Authors: Presenting author	Time
S1501M01	A immunomodulatory protein RH-p36 is relating to hard tick blood-feeding success and oviposition <i>Jinlin Zhou, Xiaojun Lu, Fengxun Guo</i>	09:00-09:30
S1501M02	Characterization and movement of iron binding proteins on <i>Haemaphysalis longicornis</i> <i>Tetsuya Tanaka, Remi Linggatang Galay, Hiroyuki Mori, Kyaw Min Aung, Hiroki Maeda, Rika Umetsuya-Shirafuji, Xuean Xuen, Hiroshi Suzuki, Masami Mochizuki, Kozo Fujisaki</i>	09:30-10:00
S1501M03	The role of autophagy in the hard tick <i>Haemaphysalis longicornis</i> <i>Rika Umetsuya-Shirafuji, Remi Linggatang Galay, Hiroki Maeda, Hiroyuki Kanna, Tetsuya Tanaka, Kozo Fujisaki</i>	10:00-10:30
Coffee/Tea Break		10:30-11:00

S 1502

Dispersal and behavior of the Acari

Symposium Organizers: Norihide Hinomoto(Japan), Chuleui Jung(Republic of Korea), Peter Schausberger(Austria)

Room 14

August 20, Monday

Code No.	Presentation Title Authors: Presenting author	Time
S1502M01	Genes and models to understand dispersal: What do they tell us about the current and potential invasive route of the tomato red mite, <i>Tetranychus evansi</i> ? <i>Maria Navajas</i>	14:00-14:30
S1502M02	Worldwide journey of invasive alien mites and ticks <i>Keiichi Goka, Kimiko Okabe, Ai Takano</i>	14:30-15:00
S1502M03	Population structure of phytoseiid mite <i>Neoseiulus womersleyi</i> and its perspective on conservation biological control <i>Norihide Hinomoto</i>	15:00-15:15
S1502M04	Patch-leaving decision of the predatory mite based on multiple signals <i>Taro Maeda</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1502M05	Local movement of prey-predatory mites and implementation in management <i>Chuleui Jung, Siyoung Kim, Joan-Ho Lee</i>	16:00-16:15
S1502M06	Belowground fungus adaptively modulates the foraging behavior of an aboveground plant-inhabiting predator <i>Peter Schausberger, Stefan Peneder, Daniela Hoffmann</i>	16:15-16:45
S1502M07	Aerial dispersal of <i>Aceria carvi</i> (Acari: Eriophyidae) <i>Rastislav Zemek, Frantisek Reindl</i>	16:45-17:15
S1502M08	Epidemiology of ticks (Acari: Ixodidae) infesting buffaloes (<i>Bos Bubalus bubalis</i>) in district Toba Tek Singh, Punjab, Pakistan <i>Muhammad Sohail Sajid, Asif Iqbal, Muhammad Nisar Khan, Muhammad Kasib Khan, Zafar Iqbal</i>	17:15-17:30

S 1503

Current issues of tick and mite collection, and identification and distribution of rickettsial parasites.

Symposium Organizers : Richard Robbins(U.S.A.), Allen Richards(U.S.A.)

Room 14

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
S1503TU01	Rickettsiae that parasitize ticks and mites Allen L. Richards	09:00-09:30
S1503TU02	Study of endemic foci of chigger mite as a vector of scrub typhus Won-Jong Jang, In Yong Lee, Hyeon Je Song, Hyun-Ji Seo, Sun-Hae Shin, Yeon-Joo Choi, Kyung-Hee Park	09:30-10:00
S1503TU03	Tick-borne pathogen surveillance in the country of Georgia: Implications for unrecognized spotted fever group rickettsial disease in humans. John Scott Lee, Lewis S. Long, Sarah Piarick, Elizabeth Wallace, Monica O'Guinn, Nikoloz Tsertsvadze, Irakli Sikharulidze, Nikoloz Kina, Mariam Zakalashvili, Maka Kakheidze	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S1503TU04	Australian ticks, their rickettsial symbionts and associated human diseases Gemma Vincent, John Stenos, Mohammad Yuzid Abbad, Leonard Izzard, Aminul Islam, Stephen Graves	11:00-11:30
S1503TU05	Ecological changes affecting the distribution and potential for tick-borne diseases in the Republic of Korea Terry Allen Klein, Heung-Chul Kim, Won-Jong Jang, Kyung-Hee Park, Jeon-Seok Chae, Baek-Jun Kim, Richard Robbins, Allen Richards	11:30-12:00
	Lunch	12:30-14:00

S 1504

Seasonal adaptations of the Acari

Symposium Organizers : Dimitris Koveos(Greece), Takeshi Suzuki(Japan)

Room 14

August 22, Wednesday

Code No.	Presentation Title Authors_Presenting author	Time
S1504W01	Ovarian stage and vitellogenin gene expression in diapause adults of the two-spotted spider mite <i>Tetranychus urticae</i> Hideharu Numata, Yuka Kawakami, Shin G. Goto, Katsuro Ito	09:00-09:15
S1504W02	Overwintering ecology of phytoseiid mites in fruit orchards Chuleul Jung, Mitsuhiro Kawashima, Hosan El Taj, Joen-Ho Lee	09:15-09:30
S1504W03	Is solar ultraviolet-B radiation an ultimate factor causing diapause in <i>Tetranychus urticae</i> under temperate climatic conditions? Masahiro Osakabe, Shoko Kawaguchi, Yasumasa Murata	09:30-10:00
S1504W04	Virtual reality experiments on a micro-locomotion compensator: seasonal changes in the spectral sensitivity of <i>Tetranychus urticae</i> Takeshi Suzuki, Takeshi Kojima, Makiko Takeda, Masayuki Sakuma	10:00-10:30
	Coffee/Tea Break	10:30-11:00

S 1505

Ecology and behavior of soil-inhabiting mites

Symposium Organizers : Naoki Mori(Japan), Hiroshi Amano(Japan)

Room 14

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
S1505F01	Underground ecology of mites in soil porosity and its significance in pest management Hiroshi Amano	11:00-11:30

Code No.	Presentation Title Authors, Presenting author	Time
S1505F02	Identification of the female sex pheromone and unique fatty acid metabolisms of <i>Tyrophagus similis</i> (Acari: Acaridae) Naoki Mori, Takako Aboshi	11:30-12:00
S1505F03	Reproductive capacity of greenhouse spinach mite, <i>Tyrophagus similis</i> Volgin, feeding on commonly used organic fertilizers Muhammad Naveed Baloch, Naoki Mori, Takako Aboshi, Hiroshi Amano	12:00-12:15
S1505F04	Hydrozetid mites (Oribatida: Hydrozetidae) on water plants in Lake Biwa, Japan, with some notes on its biogeography. Satoshi Shimano, Tokuya Sato, Gen-ichi Kuriaki, Yasushi Kusaka	12:15-12:45
Lunch		12:30-14:00

S 1506**Agricultural acarology - invasion and expansion**

Symposium Organizers : Hidenari Kishimoto(Japan), Muhammad Haseeb Baloch(U.S.A.),
David James(U.S.A.)

Room 14

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S1506F01	Designing digital multi-media identification tools for invasive mites Terrence W. Walters, Ronald Ochoa, Jennifer Beard	14:15-14:30
S1506F02	Reproductive performance and acaricide susceptibility of the invading tomato red spider mite, <i>Tetranychus evansi</i> Baker & Pritchard Tetsuo Gotoh	14:30-14:45
S1506F03	Tomato red spider mite, <i>Tetranychus evansi</i> Baker & Pritchard: Invasion and management in Africa. Karl K. M. Flaboe, Markus Knapp, Gilberto J. De Moraes, Imelda P. Furtado	14:45-15:00
S1506F04	Expansion and occurrence of <i>Neoseiulus californicus</i> (McGregor), a prospective predacious mite species, in Japan and Korea, and the conservation for biological control of spider mites Hidenari Kishimoto, Mitsuhiro Kawashima, Chuleul Jung, Hiroshi Amano	15:00-15:15
S1506F05	Agricultural acarology in the Philippines: Pest mites and their natural enemies Divina Medina Amalin	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1506F06	Management of <i>Varroa destructor</i> , the ecto-parasitic mite of the honey bee using fungal pathogens Lambert Kanga, Walker Jones, John Adamczyk, Carlos Garcia, John Cascina, Muhammad Haseeb	16:00-16:15
S1506F07	Dissemination of exotic tick and tick-borne infectious agents by migratory birds in the United States of America and abroad Shahid Karim, Nobunika Mukherjee, Michael Sellers, Laquita Burton, Steven Adamson, Richard G. Robbins, Lorenzo Beati, Frank Moore	16:15-16:30

S 1507**Internal morphology and ultrastructure of mites**

Symposium Organizers : Shingo Toyoshima(Japan), Antonella Di Palma(Italy)

Room 13

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S1507F01	Functional morphology of accessory structures involved in reproduction among gamasid mites (Acari, Anactinotrichida) Antonella Di Palma, Gerd Alberti	16:00-16:30
S1507F02	Anatomy and ultrastructure of the prosomal salivary glands in the water mites <i>Piona carnea</i> (Koch, 1836) and <i>Teutonia cometes</i> (Koch, 1837) (Acariformes: Hydrachnida) Andrey Shatrov	16:30-17:00
S1507F03	Presumed paternal genome loss during embryogenesis of predatory phytoseiid mites Shingo Toyoshima, Hiroshi Amano	17:00-17:30

Section 16 Social Insects

Conveners : Kazuki Tsuji(Japan), Donat Agosti(U.S.A.)

S 1601

Recent advances in biology of social insects

Symposium Organizers : Kazuki Tsuji(Japan), Lisa Filippi(U.S.A.)

Room 20

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S1601TH01	Not quite eusocial? There are plenty of fun and merits in studying subsocial insects <i>Joe Chun Choe</i>	09:00-09:15
S1601TH02	Social regulation of task-related plasticity in circadian rhythms in honey bee (<i>Apis mellifera</i>) workers <i>Gary Bloch</i>	09:15-09:30
S1601TH03	Antioxiant and antibacterial activity of different floral honeys from Western Ghats of Karantaka <i>Shubhavanth Ramanath, Anita Menon, Mahesh M, Sivaram Venkataramegowda</i>	09:30-09:45
S1601TH04	The clypeal gland in <i>Pyramica sauteri</i> , a novel exocrine structure in ants, and its role in prey capture <i>Johan Billen, Co-Sin Lam, Chung-Chi Lin</i>	09:45-10:00
S1601TH05	Termites, the other social insects <i>Judith Ingrid De Korb</i>	10:00-10:15
S1601TH06	A colony size "sensing" mechanism in an ant <i>Kazuki Tsuji, Ken Sugawara, Tomonori Kikuchi</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1601TH07	Provisioning control by females of the earwig, <i>Anisalabis maritima</i> : Does she adjust provisioning according to the young's need? <i>Seizi Suzuki</i>	11:00-11:15
S1601TH08	Provisioning call by mothers of a subsocial shield bug <i>Shintaro Namakuchi, Lisa Filippi</i>	11:15-11:30
S1601TH09	Mothers regulate synchronous hatching: Maternal vibration in a subsocial burrower bug, <i>Adomerus rotundus</i> <i>Hironori Muka, Mantaro Hironaka, Sumio Taja, Shintaro Namakuchi</i>	11:30-11:45
S1601TH10	Use of multiple compass references in path integration of the subsocial burrower bug, <i>Adomerus rotundus</i> <i>Mantaro Hironaka, Narumi Baba, Takahiko Horiyama</i>	11:45-12:00
S1601TH11	Subsocial habits and phylogenetic relationships of Neotropical Chrysomelinae (Coleoptera, Chrysomelidae) <i>Donald Windsor</i>	12:00-12:15
Lunch		12:30-14:00

Section 17 Special Issues

S 1701

Current issues on apiculture

Symposium Organizers : Myeong-Lyeol Lee (Republic of Korea), Siriwat Wongsiri (Thailand)

Room 2

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S1701M01	Selection of old nesting sites by <i>Apis dorsata</i> in the Northern parts of Thailand <i>Ratna Thapa, Myeong-Lyeol Lee, Yong-Soo Choi</i>	09:00-09:30
S1701M02	Detection technologies of honeybee diseases in Korea <i>Boram Lee, Van Phu Nguyen, Byaangsso Yoon</i>	09:30-10:00
S1701M03	Honeybee and ectoparasitic mite: Modeling approach to understand the complex <i>Dangwon Kim, Chulhui Jung</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S1701M04	Current status of managed insect pollinator in Korea <i>Hyung-Joon Yoon</i>	11:00-11:30
S1701M05	Honeybee visiting and pollinator attracting characteristics of some honey plants as Black locust replacement in Korea <i>Jingyu Han, Seo-Hyun Kim, Moon-Sup Kim</i>	11:30-12:00
S1701M06	Analysis of pollen in honey <i>Yong-Soo Choi, Soon-Ok Woo, In-Pyo Hong, Song-Mi Han, Ratna Thapa, Gyu-Ho Byon, Myeong-Lyeol Lee</i>	12:00-12:30
	Lunch	12:30-14:00
S1701M07	Organic beekeeping and organic honey in Thailand <i>Siriwat Wongsiri, Ratna Thapa, Pichai Kongpitak</i>	14:00-14:30
S1701M08	Study of purified honeybee (<i>Apis mellifera</i> L.) venom from Korea <i>Song-Mi Han, Kwang-Gill Lee, Soon-Ok Woo, In-Pyo Hong, Yong-Soo Choi, Man-Young Lee, Myeong-Lyeol Lee, Kwankyu Park</i>	14:30-15:00
S1701M09	RT-PCR analysis of deformed wing virus in the workers of honeybee subspecies <i>Apis mellifera carnica</i> <i>Muniswamyreddy Shankar Reddy, Pattabhiramiah Mahesh, Dorothea Bruckner</i>	15:00-15:15
S1701M10	Declining populations of <i>Apis cerana</i> - a threat to agricultural sustainability in Asia <i>Dharm Pal Abrol, Muniswamyreddy Shankar Reddy</i>	15:15-15:30
	Coffee/Tea Break	15:30-16:00

S 1702

Pathology & Microbial Control

Symposium Organizers : Yu-Chan Chao (Taiwan)

Room 1

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S1702M01	When cell therapy meets baculovirus-mediated gene therapy: Applications in tissue engineering <i>Yu-Chen Hu</i>	14:00-14:30
S1702M02	Positional cloning and functional analysis of candidate genes responsible for AcNPV susceptibility in silkworm, <i>Bombyx mori</i> <i>Jian Xia, Kimiko Yamamoto, Jee-man Lee, Hiroaki Mori, Takahito Kusakabe</i>	14:30-14:45
S1702M03	The host range of <i>Bombyx mandarina</i> nucleopolyhedrovirus S2 covers those of <i>Bombyx mori</i> and <i>Autographa californica</i> MNPV <i>Ruolin Cheng, Yipeng Xu, Chuanshi Zhang</i>	14:45-15:00

Code No.	Presentation Title Authors, Presenting author	Time
S1702M04	Control of baculovirus infection by host microRNA Yu-Chan Chao, Yueh-Lung Wu	15:00-15:15
S1702M05	Attenuation of the insect antimicrobial response after baculovirus infection Agata Karolina Jakubowska, Heiko Vogel, Salvador Herrero	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1702M06	Functional analysis of apoptosis suppressor genes encoded by <i>Lymantria dispar</i> multiple nucleopolyhedrovirus Hayato Yamamda, Koji Kitaguchi, Michihiro Kobayashi, Motoko Ikeda	16:00-16:15
S1702M07	N-glycosylation engineering of baculovirus-silkworm glycoprotein expression system Yudai Negata, Hiroaki Mori, JoeMan Lee, Takahiro Kusakabe	16:15-16:30
S1702M08	Baculovirus expression system as a platform for functional study of novel cellulases Chia-Jung Chang, Tzong-Hua David Ho, Yu-Chan Chao, Su-May Yu	16:30-16:45
S1702M09	Development of a bi-cistronic Bacmam vector for neural stem/progenitor cells Jhe-Jhih Lin, Hong-Lin Chan, Tzong-Yuan Wu	16:45-17:00
S1702M10	Cellular responses to baculovirus transduction in human mesenchymal stem cells and induced pluripotent stem cells Guang-yu Chen, Yu-Chen Hu	17:00-17:15
S1702M11	Development of a baculovirus expression vector for insect cells and mammalian cells Ming-Kun Liu, Hong-Lin Chan, Tzong-Yuan Wu	17:15-17:30

S 1703

Sericulture

Symposium Organizers : Sang Mong Lee (Republic of Korea)

Room 11

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S1703M01	Sericin as industrial glue and as additive to tissue culture media Michal Zurevec, Barbara Klafkiewicz, Tereza Staskova, Frantisek Sehnal	14:00-14:15
S1703M02	Display of <i>Bombyx mori</i> alcohol dehydrogenases on the <i>Bacillus subtilis</i> spore surface Keping Chen, Peng Lu	14:15-14:30
S1703M03	Positional cloning of the genes responsible for important traits in the silkworm Tara Shimada, Tuguru Fujii, Takashi Daimon, Hiroaki Abe, Chikara Hivayama, Akio Ohnuma, Susumu Katsuma	14:30-14:45
S1703M04	Responses of <i>Bombyx mori</i> cells to nucleopolyhedrovirus infection Michihiro Kobayashi, Motoko Ikeda	14:45-15:00
S1703M05	Identification and regulation of ecdysone response elements (EcREs) in the <i>Bombyx mori</i> cathepsin D promoter Jie Yu, Feng-Yao Wu, Feng-Ming Zou, Jun-Qiang Jia, Zhongzheng Gu	15:00-15:15
S1703M06	Apoptosis-related genes involved in cytoplasmic polyhedrosis virus infection in silkworm, <i>Bombyx mori</i> Kun Gao, Ping Wu, Xiangyuan Deng, Guangxing Qin, Ting Liu, Heying Qian, Xijie Guo	15:15-15:30

Coffee/Tea Break

15:30-16:00

S1703M07	Molecular and enzymatic characterization of two tetrahydrobiopterin synthesis-related enzymes of the silkworm <i>Bombyx mori</i> Yan Meng, Junshen Gao, Wenjing Wang, Jing Wang, Chaoliang Liu, Tara Shimada	16:00-16:15
S1703M08	Utilization of the <i>Bombyx mori</i> heat shock protein 70 promoter for efficient transgene expression Tae-Won Goo	16:15-16:30
S1703M09	Identification of immune-related genes from the Japanese oak silkworm, <i>Antheraea yamamai</i> Seong-Ryul Kim, Seung-Won Park, Kwang-Ho Choi, Tae-Won Goo, Seok-Woo Kang	16:30-16:45

Code No.	Presentation Title Authors, Presenting author	Time
S1703M10	Role of <i>Bombyx mori</i> prophenoloxidase-activating factor in pupal melanisation Kwang Sik Lee, Feng Ming Zou, Bo Yeon Kim, Byung Rae Jin	16:45-17:00
S1703M11	Structural fundamentals of silk protein biopolymer and biomedical applications of silk nanofibrous scaffolds Young Hwan Park, Chang Seok Ki, Jong Bo Park, Hyun Jung Kim	17:00-17:15

S 1704

Aquatic Entomology: Biodiversity, ecology and environment

Symposium Organizers : Yeon Jae Bae(Republic of Korea), Kazumi Tanida(Japan)

Room 11

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1704TU01	New biomonitoring guidelines using river benthic macroinvertebrates in Japan Kazumi Tanida, Takao Nozaki, Kimio Hirabayashi, Kaji Tojo	14:00-14:15
S1704TU02	Change in life history traits of a water strider, <i>Aquarius paludum</i> during 1995-2011 in accordance with global warming Tetsuo Harada, Tomoya Furutani, Takashi Shiraki, Shiro Takenaka, Shinya Moshino, Toshiki Tamura, Ken Ito, Kazufumi Doi	14:15-14:30
S1704TU03	The responses and predicted distributions of benthic insects (Ephemeroptera, Odonata, Plecoptera, Coleoptera, and Trichoptera) to global warming: A multivariate study in Korea Fengqing Li, Yong-Su Kwon, Mi-Jung Bae, Namil Chung, Young-Seuk Park	14:30-14:45
S1704TU04	The current status of Australian Ephemeroptera Kyra Jane Finlay	14:45-15:00
S1704TU05	Current status of freshwater macroinvertebrates in Korea Yeon Jae Bae, Sang Woo Jung	15:00-15:15
S1704TU06	Comparative study on tolerance to sea, brackish and fresh water bodies as habitat in oceanic sea skater of <i>Halobates micans</i> and fresh water Halobatinae species <i>Metrocoris histrio</i> (Heteroptera) Takero Sekimoto, Koki Iyota, Yuki Osumi, Takashi Shiraki, Tetsuo Harada	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1704TU07	Directional movement of aquatic insects in larval and adult stages in streams based on individual based models Tuyen Van Nguyen, Rupert Mazzucco, Dong-Hwan Kim, Ulf Dieckmann, Tae-Soo Chan	16:00-16:15
S1704TU08	Biological and genetic aspects of the non-biting midge <i>Glyptotendipes tokunagai</i> Sasa (Diptera: Chironomidae) during 30 generations of rearing under laboratory conditions Min Jeong Baek, Tae Joong Yoon, Jeong Mi Hwang, Yeon Jae Bae	16:15-16:30
S1704TU09	Species abundance distribution of benthic Macroinvertebrate communities under stressful and recovering conditions in the streams Woon-Seok Che, Dong-Hwan Kim, Young-Seuk Park, Hungsoo Kim, Tae-Soo Chan	16:30-16:45

S 1705

Insects for foods, pharmacology, and animal feeds

Symposium Organizers : Yeong-Cheol Choi(Republic of Korea),

Yupa Hanboonsong(Thailand), May Berenbaum(U.S.A.)

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Room 1

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S1705W01	Local ecological knowledge of the weaver ant <i>Oecophylla smaragdina</i> , used as human food, from Vientiane Municipality, Lao PDR Joost Van Itterbeek, Niene Sivangay, Rounthab Praxaysombath, Arnold van Huis	09:00-09:15
S1705W02	Insects - Source of biologically active substances in contemporary pharmacology Mircea Ciuhrii	09:15-09:30

Code No.	Presentation Title Authors, Presenting author	Time
S1705W03	Status of resources insects research and industrialization in China <i>Xiaoming Chen, Ying Feng</i>	09:30-09:45
S1705W04	Application of butterfly and moth wing patterns on the fabrics?An entrapreunerial approach <i>Ezhil Nil Nagarajan</i>	09:45-10:00
S1705W05	Genetic differentiation among populations of the medicinal insect <i>Blaps rhynchopetera</i> (Coleoptera: Tenebrionidae) as revealed by AFLP analysis <i>Min Zhao, Ying Feng, Xiaoming Chen, Huanhong Ji, Rui He</i>	10:00-10:15
S1705W06	Utilization of edible insects in China <i>Ying Feng, Xiaoming Chen, Min Zhao</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1705W07	Assuring food security by using insects as food and feed <i>Arnold Van Huls</i>	11:00-11:15
S1705W08	Structure and properties of silk from African wild silkmoths <i>Addis Teshome Kebede, Suresh Kumar Ralna, Fritz Vollrath</i>	11:15-11:30
S1705W09	Insect biodiversity and humanity <i>Ke Chung Kim</i>	11:30-11:45
S1705W10	Arazyme and highly active enzymes developed by microbes from insects in Korea <i>Ho-yong Park</i>	11:45-12:00
S1705W11	International entomology <i>Thomas Albert Miller</i>	12:00-12:15
S1705W12	Policies to promote Insect Industry in Korea <i>Young-Soo Ahn</i>	12:15-12:30
S1705W13	Molecular mechanism and application of coprisin, defensin-like peptide, from copris tripartitus <i>Jaisam Hwang, Eun-Yang Yun, Joon-Ha Lee, Ho Kim, Dong Gun Lee</i>	12:30-12:45
Lunch		12:30-14:00

S 1706


Women in Entomology—Challenges and achievements in a new Era
Symposium Organizers : Ernest S. Delfosse(U.S.A.), Genet M. Tulgatske(U.S.A.)

Room 3

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
	Introduction and Welcome remarks	14:00-14:15
S1706TH01	Clarifying initiatives for retaining women entomologists in Academia <i>Sharon Sue Quisenberry</i>	14:15-14:30
S1706TH02	Family and scientific career <i>Sylvia Dorn</i>	14:30-14:45
S1706TH03	Taking the "Men" out of "Mentoring" <i>Ernest S. Delfosse</i>	14:45-15:00
S1706TH04	ICE 2008 - A glimpse of the inside story <i>Shirley Hanrahan</i>	15:00-15:15
S1706TH05	Lessons from symbiotic theory for navigating, surviving, and succeeding in an academic career in entomology <i>Diana L. Slix</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1706TH06	The 7 habits of a highly successful family friendly mentor <i>Genet M. Tulgatske</i>	16:00-16:15
	Conclusion	16:15-16:30

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General – Oral

Oral Section 1 Taxonomy

0 101

Coleoptera

Moderator: Jiri Kolibac (Czech Republic)

Room 1

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
O101M01	The red palm weevil, <i>Rhynchophorus ferrugineus</i> (Olivier) (Coleoptera: Curculionidae), an entomological 'elephant in the room' Paul Rugman-Jones, Christina Hoddle, Mark Hoddle, Richard Stouthamer	09:00-09:10
O101M02	Click beetles (Coleoptera: Elateridae) of Maharashtra: A case study for Indian Elateridae Amol Prabhakar Patwardhan, Raghunandan Prabhakar Athalye	09:10-09:20
O101M03	Mitochondrial DNA phylogeography of Japanese population of <i>Phelotrupes aureus</i> (Coleoptera, Geotrupidae) and implications for conservation Mayumi Akamine, Kiyoto Marikawa, Masahiro Kan	09:20-09:30
O101M04	Comparative embryology of adaphagan beetles: Its phylogenetic implications Yukimasa Kobayashi	09:30-09:40
O101M05	First morphology-based phylogeny of the Saprininae subfamily (Coleoptera: Histeridae) shows remarkable shifts in their biologies. Tomas Lackner, Kazunori Yoshizawa	09:40-09:50
O101M06	Genetic differentiation and phylogeography of <i>Neolucanus</i> (Coleoptera: Lucanidae) in Taiwan Cheng-Lung Tsai, Wen-Bin Yeh	09:50-10:00
O101M07	Phylogenetic position of termitophilous rove beetle tribe Termitohospitini (Coleoptera: Staphylinidae). Tatsuke Kanao, Taro K. Eldredge, Munetoshi Moriyama	10:00-10:10
O101M08	Phylogeny and biology of <i>Ischyronychini</i> Chapuis 1875 (Coleoptera, Chrysomelidae, Cassidinae) Choru Shin	10:10-10:20
O101M09	Revision of the <i>Dorcus velutinus</i> species group (Coleoptera: Lucanidae) through integrative taxonomic approach Sang Il Kim, Tae Man Han, Tae Hwa Kang, Jongcheol Jeong, Youngbo Lee, Naomi E Pierce, Philip D. Perkins, Hae-Chul Park	10:20-10:30
O101M10	The oldest fossil Cleroidea and Cucujoidea Jiri Kolibac	10:30-10:40
Coffee/Tea Break		10:30-11:00

0 102

Paraneoptera

Moderator: Sonja Wedmann (Germany)

Room 1

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
O102M01	The complete mitochondrial genome of the Mediterranean cryptic species of the whitefly <i>Bemisia tabaci</i> (Gennadius) (Hemiptera: Aleyrodidae) complex Hue-Ling Wang	11:00-11:10
O102M02	Phylogenetic analysis of the plant bug subtribes Monalonini and Odoniellini (Heteroptera: Miridae: Bryocorinae) Namyatova Anna Alekseevna, Gerasimos Cassis	11:10-11:20
O102M03	The fossil reduviids (Heteroptera) of Messel (Germany) and Green River (U.S.A.) Marianne Koch, Sonja Wedmann	11:20-11:30
O102M04	Fossil lace bugs (Heteroptera: Tingidae) from the Eocene Sonja Wedmann, Marianne Koch	11:30-11:40
O102M05	Taxonomic revision of the family Cixiidae from Korea (Homoptera: Fulgoroidea) Mohammad Atikur Rahman, Yong Jung Kwon	11:40-11:50

Code No.	Presentation Title Authors_Presenting author	Time
O102M06	Systematic review of the sub-family Phyllinae (Heteroptera: Miridae) in the Korean Peninsula with discussion on phylogenetic relationship within family Miridae <i>Ram Keshari Duwal, Sunghoon Jung, Seunghwan Lee</i>	11:50-12:00
O102M07	Faunistic studies of tribe Halyini (Hemiptera, Pentatomidae, Pentatominae) of Pakistan with description of nine new species <i>Abdul Mannan Shaikh, Nasreen Memon, Mansoor Ali Shaif, Nadir Ali Birmani</i>	12:00-12:10
O102M08	Revision of Asian species of genus <i>Halyx</i> Fabricius (Hemiptera: Pentatomidae: Halyini) in addition to description of new species from Pakistan <i>Nasreen Kousar Memon</i>	12:10-12:20
Lunch		12:30-14:00

O 103

Diptera

Moderator : Lara Ellen Harrup(United Kingdom)

Room 12

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
O103M01	Three new species of the genus <i>Polypedium</i> Kieffer (Diptera: Chironomidae) from the Yaeyama Islands, Japan, with comments on the taxonomic implication of the superior volsella <i>Nao Yamamoto, Masaru Yamamoto, Toshiya Hirowatari</i>	09:00-09:10
O103M02	India bluetongue vector network: Molecular and morphological taxonomy of south Indian <i>Culicoides</i> <i>Lara Ellen Harrup, Israel Stalin, Y. Krishnamohan Reddy, Susmitha Sudhewer, Y. Narasimha Reddy, S.M. Byregowda, Rosanti Brar, Minakshi Prasad, Goya Prasad, Bethan Purse, Mudassar Chanda, David Rogers, James Logan, Clore Brand, Mike Birkett, John Pickett, Simon Carpenter</i>	09:10-09:20
O103M03	A systematic study of the genus <i>Chrysotoxum</i> Meigen (Diptera, Syrphidae) in Korea <i>Sang wook Suk, Ho-yeon Han</i>	09:20-09:30
O103M04	Uliidiidae (Diptera) systematic - Molecular and morphological aspects <i>Tatiana Galinskaya</i>	09:30-09:40
O103M05	Systematic study of the family Bombyliidae (Diptera: Asiloidea) in Korea <i>Yong-Bang Lee, Ho-yeon Han</i>	09:40-09:50
O103M06	Utility of COI, COII and ND4 genes for discriminating forensically important Diptera <i>Alicia Eva Timm, Trevor Stomper, Gregory Dahlem, Ronald Debray</i>	09:50-10:00
O103M07	A systematic revision of the Korean Lauxaniidae (Insecta: Diptera) <i>Hyun-suk Lee, Ho-yeon Han</i>	10:00-10:10
O103M08	Heterogeneity and prevalence of cryptic species in <i>Wolbachia</i> infected uzifly <i>Exorista sorbillans</i> (Diptera:Tachinidae) <i>Puttaraju Hosagavi Puttegowda, Guruprasad N. M.</i>	10:10-10:20
O103M09	Phylogeny of the mosquito tribe Culicini (Diptera, Culicidae) based on COI sequences and morphology. <i>Jacques Dubois, Ralph E. Harbach, Jan J. Kitching, C. Lorna Culverwell, Yvonne-Marie Linton</i>	10:20-10:30
Coffee/Tea Break		10:30-11:00

O 104

Hymenoptera

Moderator : Benjamin Daniel Hoffmann(Australia)

Room 11

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
O104TU01	The phylogeny of chelonine wasps (Hymenoptera: Braconidae) with special reference to the species diversity of the Australian fauna <i>Rebecca Kittle, John T. Jennings, Andrew D. Austin</i>	09:00-09:10

Code No.	Presentation Title Authors_Presenting author	Time
O104TU02	Phylogeny and higher classification of Mutillidae (Hymenoptera): Re-evaluation based on morphology <i>Denis John Brothers, Arkady S. Lelaj</i>	09:10-09:20
O104TU03	The phylogeny of Tenthredinidae (Hymenoptera): A morphological perspective <i>Lars Krogmann Hoffmann</i>	09:20-09:30
O104TU04	Taxonomic confusion and misidentification of multiple invasive ant species - Multiple current species are species complexes. <i>Benjamin Hoffmann, Alan Andersen</i>	09:30-09:40
O104TU05	Filling the gaps - New lower Cretaceous Hymenoptera and the early evolution of the order <i>Lars Krogmann Hoffmann</i>	09:40-09:50
O104TU06	Why was the genus <i>Amblyopone</i> split from the genus <i>Stigmatomma</i> ? (Hymenoptera: Formicidae) - Mandibular evolution in <i>Dracula</i> ants told from males <i>Masashi Yoshimura</i>	09:50-10:00
O104TU07	Employing polydnavirus genes to uncover cryptic species in Ichneumonidae <i>Victoria Paoli, Michael Sharkey</i>	10:00-10:10
O104TU08	Morphology and molecules for the masses: remarkable species diversity in a large and taxonomically challenging genus of ants. <i>Kathryn Susanne Sparks, Andy Austin, Alan Andersen, Steve Shattuck, Steve Dannelan</i>	10:10-10:20
O104TU09	New insight into an old genus: Revising <i>Disholcaspis</i> Dalla Torre & Kieffer, 1910 (Hymenoptera: Cynipidae) <i>Crystal McEwen</i>	10:20-10:30
Coffee/Tea Break		10:30-11:00
O104TU10	Phylogeny of Dryinidae: Evolution of Fulgoromorpha parasitism <i>Toshiharu Mita</i>	11:00-11:10
O104TU11	Comparative mitochondrial genomics of Hymenoptera <i>Shu-Jun Wei, Xue-xin Chen, Bao-cai Shi, Ya-Jun Gang</i>	11:10-11:20
O104TU12	A molecular phylogeny of Bethyloidea (Hymenoptera: Chrysidoidea) based on mitochondrial and nuclear genes. <i>Jangak Lim, Sunghwan Jung, Celsa Oliveira Azevedo, Hyejoang Kim, Ji-kwon Kim, Seunghwan Lee</i>	11:20-11:30
O104TU13	Morphometric and landmark based variations of <i>Apis mellifera</i> L. wings in the forest vegetation zone of Nigeria <i>Akeem Abolade Oyerinde, Micheal Chidozie Dike, Olalekan Banwa, Lucius Joseph Bamoyi, Robiu Salu Adamu</i>	11:30-11:40
O104TU14	Survey on biology and distribution of <i>Biorhiza pallida</i> Olivier (Hymenoptera: Cynipidae) and identification of its parasitoids in West-Azerbaijan, Iran <i>Abbas Hosseiniadeh, Zahra Hashemi Khabazi, Negar Alioghi, Nouraddin Shoyesteh</i>	11:40-11:50

O 105

Lepidoptera

Moderator: Yang-Seop Bae (Republic of Korea)

Room 4

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
O105TU01	Phylogenetic relationships of Agaristinae (Lepidoptera: Noctuidae) based on adult morphology, with special reference to the biogeography of "sound-producing clades" and the evolution of diurnality <i>Shilpher Wu, Shih-Feng Shiao, Shen-Han Yen</i>	14:00-14:10
O105TU02	Early amphiesmenopteran and lepidopteran fossils from the mid-Jurassic Jiulongshan formation of China reveal their early evolution and diversity <i>Jae-cheon Sohn, Weiting Zhang, Conrad Labandeira, Chungkun Shih, Donald Davis, Dong Ren, Charles Mitter, Oliver S. Flint</i>	14:10-14:20
O105TU03	Discovery of a new species of the genus <i>Roeslerstammia</i> Zeller (Lepidoptera, Roeslerstammidae) from China, with notes on the identity of two Indian species described by Meyrick <i>Toshiya Hirawatari, Guohua Huang</i>	14:20-14:30
O105TU04	Review the fauna of Pyraustinae (Lepidoptera, Crambidae) in NE China <i>Ma-Jie Qi, Cheng-de Li, Hu-Lin Han, Yang Seop Bae</i>	14:30-14:40

Code No.	Presentation Title Authors, Presenting author	Time
O105TU05	Three new species of Gracillariidae (Lepidoptera) from China and Japan, with descriptions of the pupal morphology of the genera <i>Eumetriochroa</i> , <i>Guttigera</i> and <i>Metriochroa</i> Shigeki Kobayashi, Guohua Huang, Toshiyo Hironaka	14:40-14:50 14:50-15:00
O105TU06	Overview of moths diversity (Lepidoptera) in the Northern Part of Vietnam Yang-seop Bae, Xuan Vi Le, Kyu-tek Park, Jong-gyun Park, Nha Van Pham, Quang Nhu Nguyen, Vuong Thi Pham	
O105TU07	Systematics of Asian skippers (Lepidoptera: Hesperidae): What have been known and what should be done. Hideyuki Chiba	15:00-15:10
O105TU08	How could we solve taxonomic conflicts between traditional data and DNA barcodes in the Korean Butterflies? Tae Hwa Kang, Tae Man Han, Young Bo Lee, Sung Soo Kim, Sang Hyeon Lee, Jong Chel Jeong, Sang Kyu Son, Hae Chul Park	15:10-15:20
O105TU09	Systematic study on the genus <i>Promalactis</i> Meyrick (Lepidoptera: Oecophoridae) Sera Kim, Kyu-Tek Park, John B. Heppner, Seunghwan Lee	15:20-15:30
Coffee/Tea Break		15:30-16:00
O105TU10	Does mimetic coloration of the model always evolve earlier than that of mimic? A case study based on the "Euploea mulciber complex" in SE Asia Chia-hsuan Wei, Li-wei Wu, Yu-feng Hsu, Shen-Han Yen	16:00-16:10
O105TU11	Taxonomical traits of native population of <i>Antheraea assamensis</i> Helfer (Muga silkworm) of Assam, India Ramesh Nath, Dipali Devi	16:10-16:20
O105TU12	Arctiid Diversity from India Jagbir Singh	16:20-16:30
O105TU13	Composition of subfamily Tortricinae (Lepidoptera, Tortricidae) from Northern Part of Vietnam Xuan Vi Le, Thi Vuong Pham, Da-young Chae, Yang-Seop Bae	16:30-16:40

O 106

Insect taxonomy: Miscellaneous orders
Moderator: Thomas Hoernschemeyer (Germany)

Room 6

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
O106TH01	Finding the sister group of Cryptocercidae + Isoptera: A combined molecular and morphological phylogeny of Dictyoptera Marie Djernaes, Klaus-Dieter Klass, Paul Eggleston	14:00-14:10
O106TH02	Molecular and phylogeographic analysis of the relict dragonflies of 'Epilophlebia' (Insecta: Odonata) Sebastian Buesse, Philipp von Grumbkow, Kazumori Yoshizawa, Sonja Wedmann, Thomas Hoernschemeyer	14:10-14:20
O106TH03	The evolution of insect flight Thomas Hoernschemeyer	14:20-14:30
O106TH04	A preliminary phylogeny of Pygomorphidae (Orthoptera: Caellifera) based on morphological characters Ricardo Marino-Pérez, Hojun Song	14:30-14:40
O106TH05	The phylogeny of the holometabolous insect orders inferred from transcriptomic, genomic, and morphological data Ralph S. Peters, Karen Meusemann, Oliver Niehuis, Gerrit Hartig, Ulrike Aspöck, Horst Aspöck, Sonja Grath, Hans Pohl, Frank Hunsfeld, Frank Friedrich, Malte Petersen, Alexander Donath, Carina Eisenhardt, Jang Hertel, Wilko Krauss, Jörg Lehmann, Christoph Mayer, Hakim Tafer, Peter F. Stadler, Erich Bamberg-Bauer, Karl M. Kjer, Ryuichiro Machida, Duane D. McKenna, Ralf G. Beutel, Bernhard Misof	14:40-14:50
O106TH06	Early evolution and historical biogeography of fishflies (Megaloptera: Chauliiodinae): Implications from a phylogeny combining fossil and extant taxa Xingyue Liu, Yangle Wang, Changkun Shih, Dong Ren, Qing Yang	14:50-15:00
O106TH07	Phylogenetic analysis of Panorpidae (Mecoptera) with special reference to the female genital plates Na Ma, Baozhen Hua	15:00-15:10

Code No.	Presentation Title Authors, Presenting author	Time
O106TH08	Characteristics of genome sequence of " <i>Candidatus Hamiltonella defensa</i> ", an endosymbiont of the whitefly, <i>Bemisia tabaci</i> Qiong Rao, Shu-Sheng Liu, Xiao-wei Wang	15:10-15:20
O106TH09	Comparative analysis of mitochondrial genomes in Diplura (Arthropoda: Hexapoda) and its utility in diplura phylogeny inference Wan-Jian Chen, Yun-Xia Luan	15:20-15:30
Coffee/Tea Break		15:30-16:00
O106TH10	Systematics of the Australian triozid fauna (Hemiptera: Psylloidea) from the Casuarinaceae Gary Taylor, Andy Austin, John Jennings, Matthew Purcell	16:00-16:10
O106TH11	Phylogeny of Stylops (Strepsiptera) reveals the way of speciation through host specialization to host <i>Andrena</i> bees Jakub Straka, Katerina Juzova	16:10-16:20
O106TH12	Preliminary phylogeny of early lineages of scale insects (Hemiptera: Coccoidea) based on adult male morphology from the early Cretaceous to recent Isabelle Milom Veà, David Alan Grimaldi	16:20-16:30
O106TH13	Cladistic analysis of Caelifera based on continuous-discrete morphological data Maryam Yasemi, Mahsen Moladi-Neyestanak, Alimorad Sarafrazi	16:30-16:40
O106TH14	CalBug: Digitizing California terrestrial arthropod collections Peter T. Oboyski, Joan E. Ball, Kipling W.W. Rosemary G. Gillespie	16:40-16:50
O106TH15	Orthoptera of the Pan-Japan sea area: Taxonomic diversity, distribution and origin Sergey Yurievich Stavozhenko	16:50-17:00
O106TH16	Cryptic termite species diversity in Kakamega Forest, Kenya Zipporah Bisleri Osilemo, Andreas Marten, Godfrey H. Kagezi, Johanna P.E.C. Darlington, Manfred Kalb, Linus M. Gitanga, Hamadi I. Bogo, Ronald Brandl	17:00-17:10

Oral Section 2 Physiology

O 201

Insect Immunology

Moderator: Jian Hu(China)

Room 2

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
O201M01	Immune inducible factors in the cuticle of the silkworm, <i>Bombyx mori</i> Tsunaki Asano	16:00-16:10
O201M02	The characterization of a concentration-sensitive α -adrenergic-like octopamine receptor found on insect immune cells and its possible role in mediating stress hormone effects on immune function Shunfan Wu, Jia Huang, Gongyin Ye	16:10-16:20
O201M03	Hemomucin, an O-glycosylated protein on embryos of wasp <i>Macrocentrus cingulum</i> protect them from being encapsulated by hemocytes of host <i>Ostrinia furnacalis</i> Jian Hu, Shengfeng Hu, Qiuyan Xu, Wenqing Zhang	16:20-16:30
O201M04	Cytolytic activity in the mosquito, <i>Armigeres subalbatus</i> Toshiharu Sasaki, Mutsa Kobayashi	16:30-16:40
O201M05	Venomic studies of an endoparasitoid <i>Pteromalus puparum</i> Gongyin Ye, Qi Fang, Lei Wang, Yu Zhu, Zhichao Yan, Fei Wang, Cui Hu	16:40-16:50
O201M06	Identification and characterization of the <i>Diadegma fenestrale</i> and <i>D. fenestrale ichnovirus</i> (DfIV) Ju H Kim, Min kwan, Yang gyun KIM, Si Hyeock Lee, Jin kyung Choi, Jong wook Lee	16:50-17:00
O201M07	Pattern recognition receptors acting in innate immune system of shrimp against pathogen infections Jin-xing Wang	17:00-17:10
O201M08	A novel polydnaviral gene family, BEN, and its immunosuppressive function in larvae of <i>Plutella xylostella</i> parasitized by <i>Cotesia plutellae</i> Md. Ramjan Ali, Yonggyun Kim	17:10-17:20
O201M09	A viral histone H4 interacts with nucleosome components and alters target insect transcriptome revealed by an Illumina RNASeq Rahul Pralhad Hepat, Yonggyun Kim	17:20-17:30

O 202

Molecular Entomology

Moderator: Mizuko Futahashi(Japan)

Room 19

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
O202M01	Utilization of microRNA mimics and inhibitors in pest control Balachandran Jayachandran, Mazhar Hussain, Sossan Asgari	16:00-16:10
O202M02	Pigment synthesis pathway genes and their application to visible transgenic markers Mizuko Futahashi, Ken-ichiro Tateyama, Kinoko Yamamoto, Keiko Uchida, Ryo Futahashi, Toshiaki Yamura, Hideki Sezutsu	16:10-16:20
O202M03	Transcriptome analysis of the oriental fruit fly <i>Bactrocera dorsalis</i> (Diptera: Tephritidae) Weihui Zheng, Tao Peng, Hongyu Zhang	16:20-16:30
O202M04	Characterize the functions of candidate effectors in aphid by RNA interference Shan-Shan Guo, Meng Zhang, Tong-Xian Liu	16:30-16:40
O202M05	Social interactions and gene expressions involved in the soldier differentiation of a termite <i>Reticulitermes speratus</i> Dai Watanabe, Toru Miura, Kiyoto Maekawa	16:40-16:50
O202M06	<i>Bactrocera dorsalis</i> shows RNAi to orally feeding dsRNAs and bacteria expressing dsRNAs Xiaoxue Li, Mingyu Zhang, Hongyu Zhang	16:50-17:00
O202M07	The Pax6/eyeless gene and the development of Collembolan eyes Yanan Hou, Yulia Luan, Sheng Li	17:00-17:10

Code No.	Presentation Title Authors, Presenting author	Time
O202M08	Effects of plant growth promoting rhizobacteria (PGPR) on induction of plant volatiles and consequences for insect-plant interactions Henry Fadamiro, Esther Ngumbi, Kate Nangle, Joseph Kloeppel	17:10-17:20
O202M09	RNAi knockdown of DNA methylation affects gene splicing in the honey bee <i>Apis mellifera</i> Hongmei Li	17:20-17:30
O202M10	Comparative fat body transcriptome analysis of sunn pest in overwintering and summer populations Nurper Guz, Umut Toprak, Dwayne Hegedus, Cathy Coutts, Asli Dageri, Mouzgan Mousavi, Serife Bayram, Oktay Mehmet Gurkan	17:30-17:40

O 203

Insect metabolism

Moderator: Kevin Steven Powell (Australia)

Room 4

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
O203TU01	Is older stronger? Correlates of ester metabolism with task-related polyethism in <i>Apis mellifera</i> Ling-Hsia Liao, May R. Bevinbaum, Joel R. Coats	09:00-09:10
O203TU02	Research progress of target and detoxification enzymes related to resistance of <i>Bactrocera dorsalis</i> Guangmao Shen, Wei Dou, Jinjun Wang	09:10-09:20
O203TU03	The effects of Xanthotoxin on some biochemical parameters of <i>Galleria mellonella</i> (Lepidoptera: Pyralidae) Meltem Erdem, Ender Buyukguzel	09:20-09:30
O203TU04	Effects of ethacrynic acid on characterizations of GSTs from <i>Liposcelis bostrychophila</i> Jingling Wu, Dandan Wei, Wei Dou, Jinjun Wang	09:30-09:40
O203TU05	Stress response and metabolomic defects in apoptosis-deficient mutant in <i>Drosophila melanogaster</i> Fumiki Obata, Erina Kuranaga, Asuka Takeishi, Ming Ming, Taro-yoshi Soga, Masayuki Miwa	09:40-09:50
O203TU06	Winter climate change: Elevated adult temperature results in epigenetic loss of cold tolerance in overwintering larvae of the blowfly, <i>Calliphora vicina</i> Paul Christopher Coleman, Jeffery S. Bale, Scott A.L. Hayward	09:50-10:00
O203TU07	Apoptosis and autophagy in the midgut of the American cockroach, <i>Periplaneta americana</i> under short-term and long-term starvation Moon soo Park, Pyotum Park, Mokio Takeda	10:00-10:10
O203TU08	Flight performance of bumblebees under mars' micro gravity (0.38G) Masami Sasaki, Katsuya Hasegawa, Masamichi Yamashita	10:10-10:20
O203TU09	Oxidative stress is a major factor for the induction of anhydrobiosis in the desiccation-tolerant midge, <i>Polypedilum vanderplanki</i> Richard Cornette, Ken-ichi Iwata, Yasushi Kanamaru, Oleg Gusev, Takahito Kikawada, Takashi Okuda	10:20-10:30
Coffee/Tea Break		10:30-11:00
O203TU10	Frost expression is not essential for recovery from chill coma, acute cold tolerance, and rapid-cold hardening in <i>Drosophila melanogaster</i> Hiroko Ueda, Anthony Percival-Smith, Brent Sinclair	11:00-11:10
O203TU11	Influence of hexane extract of <i>Ocimum sanctum</i> on longevity and reproduction of <i>Dysdercus koenigii</i> Sunil Kayasth, Kamol Kumar Gupta	11:10-11:20
O203TU12	Determination of catecholamines and aminoacids from venom reservoir extract of honeybee (<i>Apis</i>) species Nallabelli Shivarajagowda Surendra, Gopasandra Narayanappa Jayaram, Muniswamyreddy Shankar Reddy	11:20-11:30
O203TU13	Oxygen limitation of thermal tolerance in aquatic insects David T. Bilton, Wilco C.E.P. Verbeek	11:30-11:40
O203TU14	Changes in energy metabolites as well as body color phenotypes for starvation and desiccation resistance in montane populations of <i>D. melanogaster</i> Dau Dayal Aggarwal, Ravi Parkash	11:40-11:50

O 204

Insect reproduction

Moderator : Sophie Vandermoten(Belgium)

Room 20

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
O204TH01	Discovery of woolly apple aphid <i>Eriosoma lanigerum</i> (Hemiptera: Aphididae) biotypes in Australia Arnaud Costa, David Williams, Kevin Steven Powell	14:00-14:10
O204TH02	Aphid alarm pheromone: Recent advances on biosynthesis and functions Sophie Vandermoten, Eric Haubruge, Frederic Francis	14:10-14:20
O204TH03	Analysis of the yolk proteins expression in the male reproductive system of <i>Drosophila melanogaster</i> Piotr Bebas, Magdalena Maria Majewska, Agnieszka Suszczynska, Joanna Kotwica-Rolinska, Marta Anna Polanska	14:20-14:30
O204TH04	Differential gene expression between fat body of male and female in oriental fruit fly, <i>Bactrocera dorsalis</i> Mei-er Chen, Yu-han Zuo	14:30-14:40
O204TH05	Molecular cloning, expression patterns and RNAi analysis of vitellogenin receptor from the brown planthopper, <i>Nilaparvata lugens</i> (Stål) Kai Lu, Qiang Zhou	14:40-14:50
O204TH06	Fenoxycarb induced disturbance of testes development, apoptosis of germ cells and sperm release in moths Marta Anna Polanska, Michalina Kartus, Joanna Kotwica-Rolinska, Piotr Bebas	14:50-15:00
O204TH07	Studies on reproductive behaviour of susceptible and insecticide-resistant <i>Plutella xylostella</i> (Linnaeus) Anureet Kaur, Gursharan Singh	15:00-15:10
O204TH08	Effects of hen egg white proteins on reproductive performance of red flour beetle, <i>Tribolium castaneum</i> (Coleoptera:Tenebrionidae) Megha Kansal, Geetu Choudhary, Ranjit Kaur Parshad	15:10-15:20
Coffee/Tea Break		15:30-16:00

O 205

Insect neurophysiology

Moderator : Robert F. Mitchell(U.S.A.)

Room 20

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
O205TH01	Male calling and the reflex arc in <i>Leptophyes punctatissima</i> David John Robinson, Patricia Ash, Marian Hall	16:00-16:10
O205TH02	Olfactory and gustatory receptor genes in <i>Trissolcus basalis</i> Elijah Talamas, Norman F. Johnson	16:10-16:20
O205TH03	Olfactory conditioning in the German cockroach Jiali Liu, Masayuki Sakuma	16:20-16:30
O205TH04	Expression profiles and functional study of three odorant binding proteins in <i>Nilaparvata lugens</i> Stål He Peng, Shuang-lin Dong	16:30-16:40
O205TH05	Differential localization of splice variants of a glutamate-gated chloride channel subunit in the housefly Tomo Kita, Fumyo Oze, Masaaki Azuma, Yoshihiro Oze	16:40-16:50
O205TH06	Sequencing and characterizing odorant receptors sensitive to the pheromones of the Cerambycinae (Coleoptera: Cerambycidae) Robert F. Mitchell, David T. Hughes, Charles W. Luetjé, Jocelyn G. Millar, Lawrence M. Hanks, Hugh M. Robertson	16:50-17:00
O205TH07	Lost in translation: Modified olfactory inputs drive male moth behavioral responses in interspecific antennal transplants Seong-gyu Lee, Kathy R. Poole, Charles E. Linn, Neil J. Wickers	17:00-17:10
O205TH08	The overexpression of acetylcholinesterase compensates for the reduced catalytic activity caused by resistance-conferring mutations in <i>Tetranychus urticae</i> Deok Ho Kwon, Joe Young Choi, Yeon Ho Je, Si Hyonck Lee	17:10-17:20

Room 18

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
O206F01	A novel mechanism of ecdysone biosynthesis regulation in the prothoracic glands of <i>Bombyx mori</i> Masatoshi Iga, Takayoshi Nakaoka, Yutaka Suzuki, Hiroshi Kataoka	09:00-09:10
O206F02	A Chitin Deacetylase-Like protein homologue in the spruce budworm, <i>Choristoneura fumiferana</i> Guoxing Quan, Tim Cadd, Fayun Wen, Peter J. Krell, Basil M. Arif	09:10-09:20
O206F03	Structural insight into the functional and inhibitory specificity of an insect chitinolytic β -N-acetyl-D-hexosaminidase, a potential pesticide target Tian Liu, Qing Yang	09:20-09:30
O206F04	A novel alternative splicing site of class A chitin synthase from the insect <i>Ostrinia furnacalis</i> Mingbo Qu, Qing Yang	09:30-09:40
O206F05	Molecular cloning of chitinase cDNAs from the spittlebug <i>Poophilus costalis</i> (Hemiptera: Cercopidae: Aphrophoridae) Shu-chen Chang, Hsien-tzung Shih, Kuang-Hui Lu	09:40-09:50
O206F06	Tick ecysteroidogenesis - Identification of ecysteroid synthetic tissues from a soft tick Mari Horigane Ogihara, Juri Hikiwa, Yutaka Suzuki, DeMar Taylor, Hiroshi Kataoka	09:50-10:00
O206F07	Molecular mechanism of pupal coloration in the silkworm, <i>Bombyx mori</i> Takashi Kiuchi, Takeshi Fujii, Seigo Kuwazaki, Kimiko Yamamoto, Susumu Katsuma, Toru Shimada	10:00-10:10
O206F08	Eicosanoids mediate hemolymph oxidative and antioxidant response in larvae of <i>Galleria mellonella</i> Ender Buyukguzel, Pavel Hyrst, Kemal Buyukguzel	10:10-10:20
O206F09	Post-feeding diuresis in <i>Rhodnius prolixus</i> : The role of FGLamide-related allatostatins Meer Zandawala, Ian Orchard	10:20-10:30
Coffee/Tea Break		10:30-11:00
O206F10	The unexpected divergence of juvenile hormone function in highly eusocial tropical wasps Hans Keldstrup, Klaus Hartfelder, Fabio Santos Da Nascimento, Lynn Riddiford	11:00-11:10
O206F11	Female-specific wing regression triggered by 20-hydroxyecdysone during pupal-adult transformation in the winter geometrid moth <i>Nyctodes leuvarius</i> (Lepidoptera, Geometridae). Shuhei Nitsui	11:10-11:20
O206F12	Regulatory mechanism of the <i>Drosophila</i> insulin-like peptides gene expression Naoki Okamoto, Takashi Nishimura	11:20-11:30
O206F13	Molecular characterization and gene expression of juvenile hormone binding protein in the Bamboo Borer, <i>Omphisa fuscidentalis</i> Eek-artit Rittachayong, Stephen S. Tobe, Tippawan Singtripop	11:30-11:40
O206F14	Understanding physiological roles of crustacean cardioactive peptide in the blood-gorging bug, <i>Rhodnius prolixus</i> Dahee Lee, Angela B Lange	11:40-11:50
O206F15	Transcriptional mechanism of Kruppel homolog 1, a repressor of insect metamorphosis, in <i>Bombyx mori</i> Takumi Kayukawa, Chieko Minakuchi, Toshiki Namiki, Toru Togawa, Michiya Yoshiyama, Manabu Kamimura, Kazuaki Mita, Shigeo Imanishi, Makoto Kiuchi, Yukio Ishikawa, Tetsuro Shinoda	11:50-12:00
O206F16	Insulin signaling is involved in nutritional stress response in pea aphids, <i>Acyrthosiphon pisum</i> Meng Zhang, Shan-Shan Guo, Tong-Xian Liu	12:00-12:10
O206F17	Queen pheromone regulates egg production in a termite Yusuke Yamamoto, Kenji Matsuura	12:10-12:20
O206F18	Analysis of an innate behavioral sequence by genetic manipulation of a peptidergic signaling cascade Do Hyoung Kim, Mi-ram Han, Young-joon Kim, Michael E. Adams	12:20-12:30
Lunch		12:30-14:00
O206F19	Osmoregulation in the desert locust <i>Schistocerca gregaria</i> , the role of ion transport peptide. Neil Audsley, David Schooley	14:00-14:10
O206F20	Orcokinsins are conserved peptides in innervation of the salivary gland and rectal sac of ixodid ticks Ladislav Rallner, Ladislav Simo, Akira Mizoguchi, Yoshiaki Tanaka, Mirko Slovák, Yoanresong Park, Dusan Zitan	14:10-14:20
O206F21	Comparative proteomic analyses of <i>Anticarsia gemmatilis</i> and <i>Spodoptera frugiperda</i> midguts Fariba Mehrkhah, Mahmoud Ghazemi Kachameshi, Octavio Luis Franco	14:20-14:30
O206F22	JH acid methyl transferase genomics and its relevance as insect biopesticidal agent Muralaacharan Damodaran, Sinto MS, Raji PT, Omkumar RV, Gavindan Bhaskaran	14:30-14:40

Oral Section 3 Ecology

0301

Biodiversity

Moderator: Tae-Sung Kwon (Republic of Korea), David J. Lohman (U.S.A.)

Room 3

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
0301TU01	Baseline study on diversity, ecology and spatial characterization of invertebrates in and around Lake Tana Sub-basin, Northwestern Ethiopia <i>Emiru Seyoum Yeshanew</i>	09:00-09:10
0301TU02	Biodiversity of stream insects in the Malaysian Peninsula: Spatial patterns and environmental constraints <i>Salman Abdo Al-Shami, Che Salimah MD Rowi, Abu Hassan Ahmad, Madziah Rasmahanie Madus</i>	09:10-09:20
0301TU03	Ecological Interactions between non-native and native lady beetles in Maine, the United States <i>Andrei Alyokhin, Christy Leppanen</i>	09:20-09:30
0301TU04	Winter-flooded rice cultivation promotes biodiversity of aquatic insects. - Comparisons under different cultivation management systems in Shiga, Japan. <i>Kosuke Nakanishi, Kota Tawa, Boku Kanbara, Daisuke Murakami, Hirochi Sawada</i>	09:30-09:40
0301TU05	Parasitoid and pollinator networks in an Australian agro-ecosystem <i>Michelle Louise Yates, Nigel Andrew, Jane Memmott</i>	09:40-09:50
0301TU06	Cryptic species and putative Mullerian mimicry conceal the role of biogeography in the diversification of <i>Danaus</i> butterflies <i>David Lohman, Gabriela F. Farías Quijidor</i>	09:50-10:00
0301TU07	Revisiting the ants of Melanesia and the taxon cycle: Historical and human-mediated invasion of a tropical archipelago <i>Evan Phillip Economos, Eli Sarnat</i>	10:00-10:10
0301TU08	Managing riparian margins for biodiversity benefits <i>Jenni Stockan, Glenn Jason, John Baird, Mark Young</i>	10:10-10:20
0301TU09	Roles of insects in the Mesozoic ecosystems of Northeastern China <i>Shu Li, Dong Ren, Hong Pang</i>	10:20-10:30
Coffee/Tea Break		10:30-11:00
0301TU10	Influence of the river regulation works on ground beetle assemblages in riverbeds of the Yodo River flowing through northern Osaka Prefecture, central Japan <i>Takahiro Fujisawa, Minoru Ishii</i>	11:00-11:10
0301TU11	Effects of plantation management on scarabs feeding on eucalypt and understory grass host plants. <i>Adam Frew, Markus Riegler, Uffe N Nielsen, Scott Nicholas Johnson</i>	11:10-11:20
0301TU12	Diversity, distribution and plant association of thrips belonging to <i>Frankliniella</i> genus in East Africa <i>Subramanian Sevgan, Sandra Kumen, Johnson Danyo Nyasani, Monica Waiyanga, Samuel Muchemi, Gerald Meritt</i>	11:20-11:30
0301TU13	Aquatic insect assemblages in artificial ponds newly created in a Satoyama coppice in southern Osaka, central Japan <i>Masahiro Suzuki, Naoto Hirai, Minoru Ishii</i>	11:30-11:40
0301TU14	Interspecific relationships in grassland ground beetle (Coleoptera: Carabidae) assemblages <i>Gabor Pozsgai</i>	11:40-11:50
0301TU15	The Argentine ant, <i>Linepithema humile</i> , interferes with the foraging success of native ant species in a biodiversity hotspot. <i>Natasha Palesa Mthopho, Cathryn Joubert, Theresa Clair Wossler</i>	11:50-12:00
0301TU16	Diversity in the genome of <i>Ephestia cautella</i> Walker (Lepidoptera: Pyralidae) Strains from Southwestern Nigeria <i>Adegoke Victor Oyedokun, Adedapo Amos Omalaye, Babatola Daniel Adenwale, Segun Isaac Oyedele, Feyisara Abiodun Okelana</i>	12:00-12:10
0301TU17	Species richness of canola aphids, (<i>Brevicoryne brassicae</i> , <i>Myzus persicae</i> and <i>Lipaphis erysimi</i>) (Homoptera: Aphididae) and its associated natural enemies in different areas of Punjab, Pakistan <i>Muhammed Jalal Arif, Qasim Abbas, Muhammad Ashfaq, Muhammad Dilkar Gogi, Saqi Kassar Abbas, Haider Karar</i>	12:10-12:20
0301TU18	Decrease of ant diversity due to forest disturbance <i>Tae-sung Kwon, Cheol-min Lee</i>	12:20-12:30
Lunch		12:30-14:00

Code No.	Presentation Title Authors Presenting author	Time
O301TU19	Altitudinal pattern of ant diversity in Korea: An empirical test of mid-domain effect and Rapoport's rule, and an alternative suggestion <i>Tae-sung Kwon, Jung-hwa Choi, Cheol-min Lee</i>	14:00-14:10
O301TU20	Study on settled insect communities from restored stream Cheonggyecheon, Seoul <i>Min-seon Kim, Do-yung Choe, Youngdon Ju, Xuan-Vi Le, Mu-Je Qi, Ulziijargal Bayarsaikhan, Bosun Park, Heejo Lee, Yang-seop Bae</i>	14:10-14:20
O301TU21	Diversity and abundance of mesostigmata mites in Arignar Anna zoological park, Chennai, South India <i>Shobana Ganesan, Gunasekaran Chinnapan, Lena Mahalingam, Agnes Deepa Amalanathan, Sharmila Banu Amanullah, Mohana Panner Selvam</i>	14:20-14:30
O301TU22	Diversity and foraging ecology of pollinators in mango (<i>Mangifera indica</i>): An Indian perspective <i>Polara Venkatarami Reddy, Abraham Verghese, Varun Rajan, Kavitha Bhimesh, Rashmi T.</i>	14:30-14:40
O301TU23	Diversity and distribution of Chironominae (Chironimidae: Diptera) Larvae from Balaghat ranges in Maharashtra, India. <i>Ramrao Jamerdhenrae Chavan, Anant Mahadeo Garkwad, Pragati Rajabhai Bhasale, Bhagwan Vithoba Sanune</i>	14:40-14:50
O301TU24	Effect of anthropogenic activity on diversity of insects in Nilgiri biosphere reserve, Tamil Nadu, South India <i>Mohana Panner Selvam, Gunasekaran Chinnapan, Lena Mahalingam, Agnes Deepa Amalanathan, Sharmila Banu Amanullah, Shobana Ganesan</i>	14:50-15:00
O301TU25	Diversity and habitat utilization of Indian peafowl in and around Bharathiar university campus and V.O.C park, Tamilnadu, South India <i>Agnes Deepa Amalanathan, Gunasekaran Chinnapan, Lena Mahalingam, Shobana Ganesan, Mohana Panner Selvam, Sharmila Banu Amanullah</i>	15:00-15:10
Coffee/Tea Break		15:30-16:00

O 302

Climate change effects

Moderator : Nigel Andrew(Australia)

Room 3

August 21, Tuesday

Code No.	Presentation Title Authors Presenting author	Time
O302TU01	Effects of temperature stress on tropical insects: A case study with the brown planthopper <i>Nilaparvata lugens</i> (Stål) <i>Jiranan Piyaphangkul, Jeremy Pritchard, Jeffrey S. Bale</i>	16:00-16:10
O302TU02	Environment driven changes in foraging behaviour of hyperparasitoid wasps and their impacts upon the structure of host-parasitoid networks <i>Dominic Charles Henri</i>	16:10-16:20
O302TU03	Assessing insect responses to climate change: How are the fingerprints being detected? <i>Nigel Andrew, Sarah Hill, Matthew Bloms, MD Habibullah Bohar, Emma Ridley, Myung-pyo Jung, Chris Fyfe, Michelle Yates, Mohammad Khuroo</i>	16:20-16:30
O302TU04	Bark beetles and fungi: Effects of climate change on symbiont community and stability <i>Diana L. Six, Melissa Friedmann, James Powell, Barbara Bentz</i>	16:30-16:40
O302TU05	Insect herbivory on eucalypts under changing resource allocations and climate change <i>Tara J. Murray, Andrew Gherlenda, David T. Tissue, David S. Ellsworth, Markus Riegler</i>	16:40-16:50
O302TU06	Effect of climatic conditions on population dynamics of dengue mosquitoes (<i>Aedes aegypti</i> and <i>Aedes albopictus</i>) <i>Shabeb Nasir</i>	16:50-17:00
O302TU07	Effect of climate change on seasonal foraging activity of termites (Isoptera) <i>Baris Dadij Kasseney, Jing Li, Jiqian Wei, Jianchu Mo</i>	17:00-17:10

O 303

Multitrophic interaction & invasion ecology

Moderator : Xiaoxia Liu(China)

Room 21

August 22, Wednesday

Code No.	Presentation Title Authors Presenting author	Time
O303W01	The genomic response of grapevine to a phloem-feeding insect Alicia Eva Timm, Annette Resneke	09:00-09:10
O303W02	Does the wooly poplar aphid, <i>Phloeomyzus passerinii</i> , manipulate the defense reactions of its host tree? France Dardeau, Françoise Laurans, François Lieutier, Aurelien Sallé	09:10-09:20
O303W03	The effects of wind and bees on Pollen-mediated gene flow from transgenic Bt cotton Jialin Zhu Bohar, Jianqun Niu, Qingwen Zhang, Xiaoxia Liu	09:20-09:30
O303W04	Distribution of <i>Pentalonia nigronervosa</i> , <i>P. caladii</i> , and the Banana Bunchy-Top Virus in Micronesia Julie Anne M. Duay, Ross H. Miller, George C. Wall, Robert G. Foottit, Keith S. Pike	09:30-09:40
O303W05	Optimal defense strategy in an extrafloral-nectar bearing plant using physical, chemical and biotic defense traits Akira Yamawa, Nobuhiko Suzuki	09:40-09:50
O303W06	<i>Battus philenor</i> larvae use their frontal projections as host plant detectors Kwao Kanderi, Daniel R. Papaj	09:50-10:00
O303W07	Gall biology of an Eulophid wasp species associated to flower ovaries of <i>Philodendron bipinnatifidum</i> (Araceae) in Brazil Sergio Jansen, Simone Padua Teixeira, Rodrigo A. Santinelo Pereira	10:00-10:10
O303W08	Host selection features of xylophagous insects and their applications in forest health assessment Jianmin Wang, Xiuming Chen, Zixiang Yang, Juan Liu, Fei Chen, Baogang Sun	10:10-10:20
O303W09	Host plant manipulation by a gall-inducing insect: Regrowth response affects on herbivores abundance Ananto Triyogo, Hironori Yasuda	10:20-10:30
Coffee/Tea Break		10:30-11:00
O303W10	Feeding and growth of cotton armyworm <i>Spodoptera litura</i> Fabricius (Lepidoptera: Noctuidae) in response to cotton varietal characteristics Yong Jung Kwon, Md Ruhul Amin, Dil Afrose Tithi	11:00-11:10
O303W11	Routes and processes leading to New World-Old World and North America-South America disjunctions in three widespread spider wasp groups (Hymenoptera: Pompilidae) Juanita Rodriguez, James P. Pitts, Carol D. von Dohlen	11:10-11:20
O303W12	A possible seasonal trade-off between the number of dispersed seeds and long-distance seed dispersal in myrmecochorous sedges, <i>Carex lanceolata</i> and <i>C. tristachya</i> (Cyperaceae) Koki Tanaoka, Nobuhiko Suzuki	11:20-11:30
O303W13	Genetic structure and diversity of the populations of an invasive species <i>Cydia pomonella</i> (L.) (Lepidoptera: Tortricidae) in China Maohua Chen, Gislei Men, Jintan Feng, Yalin Zhang	11:30-11:40
O303W14	Role of hoverfly - plant species interaction in maintenance of pea aphid host races Ilka Vasteen, Jonathan Gershenson, Grit Kunert	11:40-11:50
O303W15	Acquisition of plant viruses changes host plant preference of aphid vectors Nilsa A. Bosque-Perez, Laura L. Ingwell, Dhelvasigamani Rajabaskar, Sanford D. Eigenbrode	11:50-12:00
O303W16	Effect of host plant species on bionomic and life history parameters of <i>Anagyrus pseudococcii</i> Girault (Hymenoptera: Encyrtidae) a parasitoid of the mango mealybug <i>Rastrococcus iceryoides</i> Green (Homoptera) Chrysantius Tonga, Sunday Ekezi, Samira Mohamed, Prem Govender	12:00-12:10
O303W17	The relationship between age and learning ability of <i>Venturia canescens</i> Yasaman Moghaddasi, Hatzeln Kishani Forshani, Ahmad Ashouri, Martin Shapiro	12:10-12:20
Lunch		12:30-14:00

Code No.	Presentation Title Authors, Presenting author	Time
O304TH01	Movement of parasitized aphids favour inbreeding avoidance of adult parasitoids <i>Delphine Boudais, Thierry Hance</i>	09:00-09:10
O304TH02	Nesting habit of <i>Osmia orientalis</i> and its parasitoids <i>Chrysura hirsute</i> <i>Tomoyuki Yokoi, Takato Hirooka, Mayumi Tamara, Ikuo Kanda</i>	09:10-09:20
O304TH03	Why does <i>Oreina cacaliae</i> (Coleoptera: Chrysomelidae) take the decision to fly and leave its host plant? <i>Nicole Marguerite Kalberer Simmen</i>	09:20-09:30
O304TH04	Senescence in immune priming and attractiveness in <i>Tenebrio molitor</i> <i>Tatjana Krama, Janina Dawkta, Inese Kivlenieks, Markus J. Rontala, Indriks Krams</i>	09:30-09:40
O304TH05	Sexual pheromones evolution in insular bumblebees <i>Thomas Lecocq, Denis Michez, Audrey Coppee, Simon Delfaut, Irina Valterova, Jean-Yves Rasplus, Pierre Rasmont</i>	09:40-09:50
O304TH06	How do insects find differently sized realistic odour plumes? Model and experiment <i>Lia Hemerik, Marjolijn Loef, Peter Hambäck</i>	09:50-10:00
O304TH07	Effect of migration and mating status of the legume pod borer, <i>Maruca vitrata</i> (Fabricius) (Lepidoptera: Crambidae) on the efficacy of synthetic sex pheromone traps in West Africa <i>Taro Adati, Manuele Tamo, Shinsaku Koji, Mark C. A. Downham</i>	10:00-10:10
O304TH08	Pheromones and body coloration affect mate recognition in <i>Amata</i> genus <i>Yusuke KonDo, Hideshi Naka, Koji Tsuchida</i>	10:10-10:20
O304TH09	Behavioral and chemical differences among females in the temperate paper wasp <i>Polistes snellen</i> <i>Kazuhisa Yamasaki, Koji Tsuchida</i>	10:20-10:30
Coffee/Tea Break		10:30-11:00
O304TH10	Changes in apple plant volatiles in response to feeding damage of <i>Pandemis heparana</i> <i>Valentino Giacomuzzi, Sergio Angeli</i>	11:00-11:10
O304TH11	Use of immunomarking to determine foraging patterns of <i>Osmia cornifrons</i> (Radoszkowski) in a cherry orchard <i>Neelendra K. Joshi, David J. Biddinger, Edwin G. Rajotte, Noemi O. Halbrendt, Cassandra Pullig, Kusun J. Naithani</i>	11:10-11:20
O304TH12	Exotic omnivore dung is more attractive to native North American dung beetles than North American herbivore dung <i>William Wyatt Hoback, Sean D Whipple</i>	11:20-11:30
O304TH13	Attractiveness of fermenting baits to tortricid moths in fields in Korea and New Zealand <i>KyungHee Choi</i>	11:30-11:40
O304TH14	Would female oviposition preference affect larval anti-predator defenses? A case study using a polyphagous aquatic lepidopteran species <i>Ling-ying Tsai, Shen-Hon Yen</i>	11:40-11:50
O304TH15	Characterization of resistant factors in faba bean (<i>Vicia faba</i> L.) cultivars against cowpea aphid (<i>Aphis craccivora</i> Kosch.) using Electrical Penetration Graph (DC-EPG) <i>Alan Soffan, Salem Safer Alghamdi, Abdulrahman Saad Aldawood</i>	11:50-12:00
O304TH15	Functional significance of fruit fly (Diptera: Tephritidae) male attractants and underlying genetic mechanisms <i>Kumaran Nagalingam, Peter Prentis, Solomon Balagawi, Mark Schutze, Anthony R. Clarke</i>	12:00-12:10
Lunch		12:30-14:00

O 305

Ecology: Genetics, pollution, symbionts & prey-predator interaction

Moderator: James E Russell (U.S.A.), Masakazu Shimada (Japan)

Room 13

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
O305TH01	Reversal in ecological host race formation in western populations of <i>Rhagoletis pomonella</i> Sheela Basan Sim, Jeffrey Feder, Scott Egan	11:00-11:10
O305TH02	Genetic diversity and population structure of <i>Bactrocera correcta</i> , from China, Thailand, Myanmar and Laos based on mtDNA COI Napperor Busham, Yu Du, Yi Wu, Yulang Deng, Jing Li, Xiaolong Jiang, Zhiheng Li	11:10-11:20
Code No.	Presentation Title Authors_Presenting author	Time
O305TH03	Variation among ancestral populations of a global superpest: The case of the Colorado potato beetle Yolanda H. Chen, Victor Izzo, Jordan Armstrong	11:20-11:30
O305TH04	Expression profiles of esterase genes in environmental adaptation of the brown planthopper, <i>Nilaparvata lugens</i> Stål Hongwei Yao, Yan Gao, Mingxing Jiang, Yanyuan Bao, Zengrong Zhu, Gongyin Ye, Na'an Cheng	11:30-11:40
O305TH05	Effects of a plant-accumulated pollutant on the gustatory behaviors, survival and pollination ecology of the honey bee (<i>Apis mellifera</i> L.) Kristen R. Hladun, John T. Trumble	11:40-11:50
O305TH06	Arsenic accumulation, sequestration, and biotransformation in aquatic Diptera Christina Loraline Mogren, Samuel M. Webb, John T. Trumble	11:50-12:00
O305TH07	Significance of termite mounds in heavy metal exposure. Frances Duncan, Megan Field	12:00-12:10
O305TH08	Transgenerational effects of heavy metal exposure on immune defense of the blow fly <i>Protophormia terraenovae</i> Mari Paikiki, Katarina Kangasalo, Markus J. Rantala	12:10-12:20
O305TH09	An invasive fruit fly benefits from a spatial and behavioural refuge against its introduced egg parasitoid Katharina Merkel, Sándor Ekevi, Thomas S. Hoffmeister	12:20-12:30
Lunch		12:30-14:00
O305TH10	Effects of leaf shape and host larva on oviposition preference of a tachinid fly, <i>Sturmia bella</i> , between two butterfly host plants Takki Tsuchida, Norio Hiro, Minoru Ishii	14:00-14:10
O305TH11	Predation on a parasitic fly: Cues arising from the host-parasite interaction increase the predation risk Sirpa Raunisto, Panu Valmaki, Raine Kortet, Jani Koskimäki, Sanni Harkonen, Arja Kaitala, Sanni Luukkainen, Laura Harkonen, Hannu Ylönen	14:10-14:20
O305TH12	Parasitic wasp learning promotes coexistence with hosts' generation cycles in host-parasitoid system: Neural model analysis Masakazu Shimada, Yumiko Ishii, Koji Sasakawa, Shin-ichiro Nakayama	14:20-14:30
O305TH13	Endosymbiotic diversity in Otiophrynus spp. (Coleoptera: Curculionidae) - a multibag 454 pyrosequencing approach Jacqueline Hirsch, Stephan Strömmer, Martin Pfannkuchen, Annette Balzke	14:30-14:40
O305TH14	Adaptive evolution of proviral genome segments from braconid wasps obligatory symbionts Annie Bézier, Severine Jancek, Faustine Louis, Julien Theze, Gabor Gyapay, Karine Musset, Georges Penquet, Catherine Dupuy, Elizabeth Hemiau, Jean-Michel Dreezen	14:40-14:50
O305TH15	Cytosolic interactions and coadaptation in a <i>Trichogramma-Wolbachia</i> symbiosis James E Russell, Richard Stouthamer, Leonard Nunney	14:50-15:00
O305TH16	The nest of leafcutter bee <i>Megachile unbipennis</i> Smith (Megachilidae) in Bangka Island, Indonesia. Dita Nurtjahya	15:00-15:10
O305TH17	Comparison of stream macroinvertebrate communities from two Philippine Islands: A biogeographic study Christine Jewel Cardenas Uy, Perry Sim Ong, Francis Sebastian Magbanua	15:10-15:20
O305TH18	Invertebrates mediate the responses of decomposer fungi to elevated temperature Andrew Donald A'Beir	15:20-15:30
Coffee/Tea Break		15:30-16:00

- O305TH19 The trial and performance of an international joint study between Korea and Russia for the restoration of *Callipogon Relictus* 16:00-16:10
Dae-am Yi, Arkady S. Lele, Andrej K. Kotlyar, Alexander V. Kuprin
- O305TH20 Activity of insect fauna during the night, in the palm orchards of central Iraq 16:10-16:20
Mohammed Zaidan Khalaf
- O305TH21 Comparative studies of behavioural variations of *Apis mellifera* L. species in Nigeria 16:20-16:30
Akeem Abiodun Oyerinde, Micheal Chidozie Dike, Luckus Joseph Bamaiyi, Babu Salu Adamu
- O305TH22 Circadian control of oviposition and hatching in *Epilachna vigintioctopunctata* (Coleoptera: Coccinellidae): A laboratory study 16:30-16:40
Navodita George Maurice
- O305TH23 Distributions and seasonal fluctuations of carabid species (Coleoptera: Carabidae) of hazelnut plantations in Turkey 16:40-16:50
Gregory Thomas Sullivan, Sebahat K. Ozman-Sullivan, Memis Kesdek
- O305TH24 Effects of the host plant on the biology and life-table parameters of two-spotted spider mite 16:50-17:00
Mona Maghsoodlou, Mohammad Mahsen Montazeri, Hajar Pakyari

O 306

Life history & population dynamics

Moderator: James David Jensen Gilbert (Australia), Indrikis Krams (Latvia)

Room 1

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
O306F01	Heritable variation of life-history traits in an adapted spruce budworm population Roberto Quezada Garcia, Eric Baucé	09:00-09:10
O306F02	A test of genetic theories underlying Haldane's Rule with haplodiploid wasps Tosca Koenoets, Louis van de Zande, Leo W. Beukeboom	09:10-09:20
O306F03	Joining forces in defense: Production dynamics of symbiont-mediated antibiotics reveal long term antimicrobial protection for wasp offspring Sabrina Koehler, Martin Kaltenpoth	09:20-09:30
O306F04	Predation selects for lower resting metabolic rates in <i>Tenebrio molitor</i> Indrikis Krams, Tatjana Krama, Janina Daukste, Inese Kivleniece, Markus J. Rontala	09:30-09:40
O306F05	Temperature-dependent, behavioral, and transcriptional variability of a tritrophic interaction consisting of bean, herbivorous mite, and predator Gen-ichiro Arimura, Rika Ozawa, Otsuru Nishimura, Shigenobu Yazawa, Junji Takabayashi	09:40-09:50
O306F06	Biology of coconut black-headed caterpillar, <i>Opisina arenosella</i> Walker (Lepidoptera: Oecophoridae), records of alternative host plant and its natural enemies in Thailand Nampheung Chomphukhiao, Wiwat Suwasard, Sopan Uraichuen, Oraphan Kermasa, Paweena Buchatong	09:50-10:00
O306F07	Slow-growth-intraguild predation- status; when the diet determines your IGP status. Eric Lucas	10:00-10:10
O306F08	Evolution of cooperation: Insights from a tiny haplodiploid insect. James David Jensen Gilbert, Stephen James Simpson	10:10-10:20
O306F09	Winter host selection influences fitness traits in an aphid parasitoid Thiêga Oliveira Andrade, Maxime Harve, Yannick Outreman, Liliane Krespi, Joan van Boeren	10:20-10:30
Coffee/Tea Break		10:30-11:00
O306F10	Effect of mating interactions between females and males from different primary host species on host feeding and parasitism by the autoparasitoid <i>Encarsia sophia</i> Liansheng Zang, Changchun Ruan, Fanghao Wan	11:00-11:10
O306F11	Morphological changes correlated with horsehair worm infection in <i>Hierodula formosana</i> Giglio-Tos (Mantodea: Mantidae) Ming-chung Chiu, Chin-gi Hyang, Wen-fer Wu, Shih-feng Shiao	11:10-11:20
O306F12	Ecological plasticity and genetic diversity of the mango blossom gall midge, <i>Procontarinia mangiferae</i> (Felt), in Reunion Island Paul Amoureux, Frederic Normand, Samuel Nibouche, Helene Delattre	11:20-11:30
O306F13	Are sneaky males making the best of a bad lot or reaping the rewards? Alternative reproductive tactics in the giraffe weevil (<i>Lasiorhynchus barbicornis</i>) Christina Painting, Thomas R. Buckley, Gregory I. Holwell	11:30-11:40

Code No.	Presentation Title Authors Presenting author	Time
O306F14	Gall formation strategies of <i>Idarnes group flavicollis</i> associated to <i>Ficus citrifolia</i> in Brazil Sergio Jansen, Simone Padua Telalra, Rodrigo A. Santinelo Pereira	11:40-11:50
O306F15	Does overheating risk affect the evolution of cryptic coloration? Kaori Tsumi, Takayoshi Nishida	11:50-12:00
O306F16	Plastic defensive behavior of termite workers depending on social context. Yuki Ishikawa, Kei Tanabe, Hitoshi Aonuma, Toru Miura	12:00-12:10
O306F17	Age-related male reproductive investment and female fitness consequences in a moth, <i>Ostrinia scapularis</i> Aye Thanda Win, Wataru Kojima, Yukio Ishikawa	12:10-12:20
O306F18	Finding signatures of selection imposed on insect by urbanization Sergei Lyssenko, Peter Chang	12:20-12:30
	Lunch	12:30-14:00
O306F19	Mating experience weakens starvation tolerance in the seed bug <i>Togo hemipterus</i> (Heteroptera: Lygaeidae) Chihiro Himura, Kenji Fujisaki	14:00-14:10
O306F20	Overwintering Adults of <i>Danaus genutia</i> (Lepidoptera, Nymphalidae: Danaeinae) in South-central Yunnan are in quiescence Chengli Zhou, Zhen Chen, Xiaoming Chen	14:10-14:20
O306F21	Characterization of overwintering sites of brown marmorated stink bug (Hemiptera: Pentatomidae) in natural landscape Doa-hyung Lee, John P. Cullum, Sean A. Wiles, Tracy C. Leskey	14:20-14:30
O306F22	The mechanism of the fecundity reduction in <i>Callosobruchus maculatus</i> caused by <i>Callosobruchus chinensis</i> males Daisuke Kyogaku, Takayoshi Nishida	14:30-14:40
O306F23	Size-induced reproductive constraints in an egg parasitoid Guy Balvin	14:40-14:50
O306F24	Influence of " <i>Candidatus Liberibacter asiaticus</i> " on the biological characteristics of <i>Diaphorina citri</i> Kuwayama Yijing Cui, Fengnan Wu, Guangwen Liang	14:50-15:00
O306F25	Thermal biology and population abundance of Mediterranean and Natal fruit flies, <i>Ceratitis capitata</i> and <i>Ceratitis rosa</i> (Diptera: Tephritidae) in South Africa Casper Nyamukondiwa, Chris W Weldon, John S. Terblanche	15:00-15:10
O306F26	Comparative population growth of the Psocid <i>Liposcelis yunnanensis</i> (Psocoptera: Liposcelidae) on different humidities Muhammad Waqar Hassan, Wei Dou, Jin-Jun Wang	15:10-15:20
O306F27	Life tables and development of <i>Musca domestica</i> (Diptera: Muscidae) on three different diets Nurita Abu Tahir, Abu Hassan Ahmad, Aiman Hanis Jasmi	15:20-15:30
	Coffee/Tea Break	15:30-16:00
O306F28	A comparison of red palm mite populations on banana in the invasive and naturalised range. Bryony Taylor, Sean T. Murphy	16:00-16:10
O306F29	Comparative life history and life tables between the two clones of <i>Sitobion avenae</i> (Fabricius) (Hemiptera: Aphididae) on barley yellow dwarf virus infected barley Zuqing HU, Huiyan Zhao, Thomas Thiem	16:10-16:20
O306F30	The glassywinged sharpshooter, <i>Homalodisca vitripennis</i> and the plant pathogenic bacterium, <i>Xylella fastidiosa</i> it vectors: Preparing Australia for invasion Anna Rathe, Geoff M Gurr, Leigh J Pilkington	16:20-16:30
O306F31	Difference in larval development and female oviposition preference in host plants between two populations utilizing different plants as larval hosts in an endangered lycaenid butterfly, <i>Zizina emelina</i> Yoshiko Sakamoto, Norio Hiroi, Minoru Ishii	16:30-16:40
O306F32	Effect of host plant on life history and population growth parameters of the invasive mango mealybug, <i>Rastrococcus iceryoides</i> Green (Hemiptera: Pseudococcidae) in Africa Tanga Mbi Chrysanth, Sunday Ekeri, Samira Mohamed, Govender Prem	16:40-16:50
O306F33	Modeling temperature-dependent development of pistachio psylla, <i>Agonoscyta pistaciae</i> (Hemiptera: Psyllidae) Mohammad Reza Hassani, Abbas Arbab	16:50-17:00
O306F34	Multiple mating and its effect on fitness of <i>Diaeretiella rapae</i> (Hymenoptera: Aphididae) Rashmi Kant, Maria A. Minor, Steve Treweek	17:00-17:10

Oral Section 4 IPM

0 401

IPM : Population dynamics, dispersal, ecology, new control techniques

Moderator : Jerome Franklin Grant(U.S.A.), Sunday Ekesi(Kenya)

Room 10

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
O401M01	Invasive insect pests of forests in the Southern Appalachians, USA: Assessment and management of multiple pests to enhance forest health <i>Jerome F. Grant, Paris L. Lombino, Gregory J. Wiggins, James Rusty Rhea</i>	09:00-09:10
O401M02	Biological base of IPM against phytophages on strawberry plantations <i>Sergey Yakovlevich Popov</i>	09:10-09:20
O401M03	Synthetic substrate-borne vibrational signals that elicit Asian citrus Psyllid communicatory and search responses <i>Richard Wendell Mankin, Elizabeth Heatherington</i>	09:20-09:30
O401M04	Assessment of the effect of inflorescence density index of grain amaranth (<i>Amaranthus</i> Spp.) on <i>Cletus fuscus</i> infestation. <i>Ablola Olufunke Oke, Thomas J. Olujo</i>	09:30-09:40
O401M05	Management strategies for the invasive fruit fly, <i>Bactrocera invadens</i> in Africa <i>Sunday Ekesi, Samia Mohamed, Fathya M. Rhamus, Nguya K. Maniania</i>	09:40-09:50
O401M06	Improved attraction of the strawberry blossom weevil <i>Anthonomus rubi</i> by combining the aggregation pheromone with specific host flower volatile <i>Atle Wibe, Anna-Karin Borg-Karlson, Jerry Cross, Lene Sigsgaard, Ilme Liblikas, Helena Bichan</i>	09:50-10:00
O401M07	Stylet penetration activities of tomato/potato Psyllid associated with acquisition and inoculation of <i>Candidatus Liberibacter solanacearum</i> <i>Manohar Sandanayake, Aranzazu Moreno, Leah Tooman, Natalie Page-Weir, Alberto Ferreres</i>	10:00-10:10
O401M08	Oviposition preferences of codling moth, <i>Cydia pomonella</i> (L.) (Lepidoptera: Tortricidae) and an oviposition preference-based susceptibility index for apple cultivars <i>Neelendra K. Joshi, Larry A. Hull, Edwin G. Rajotte, Clayton T. Myers, Greg Krawczyk</i>	10:10-10:20
O401M09	Effects of electron beam on life stages and DNA damage of American serpentine leafminer, <i>Liriomyza trifolii</i> (Burgess) <i>Seung Hwan Yun, Hyun-na Koo, Gil hah Kim</i>	10:20-10:30
Coffee/Tea Break		10:30-11:00
O401M10	Lac insects cultivation, ecological and economical importance of lac agroecosystems in China. <i>Yueping Chen, Xiaoming Chen</i>	11:00-11:10
O401M11	Going underground - enhanced detection approaches for root feeding grape phylloxera <i>Kevin Steven Powell, Rebecca J. Bruce, Devin Benheim, Simone J. Rochfort</i>	11:10-11:20
O401M12	Cockchafer distribution, species diversity and seasonal abundance in gipsland, victoria: Preliminary findings <i>Rebecca Jane Bruce, Kevin Steven Powell, Amy Cosby, Mark Trotter, John Stanley, Greg Folzon, Alan Louie Yen, David Lamb</i>	11:20-11:30
O401M13	Grapevine phylloxera: An integrated approach to management of a phylloxera clonal lineages in Australia <i>Kevin Steven Powell, Ginger A. Karosi, Rebecca Jane Bruce</i>	11:30-11:40
O401M14	Study on occurrence characteristics of <i>Eucryptorhynchus chinensis</i> (Olivier) (Coleoptera:Curculionidae) in Lingwu, Ningxia <i>Qionglan Yu, Chong Chen, Junbao Wen</i>	11:40-11:50
O401M15	Resistance of onion cultivars to thrips (thysanoptera: Thripidae) and Iris yellow spot virus in Kenya <i>Rael Kayume Biriha, Rama Naria, James Muthami, Subramanian Sevgan</i>	11:50-12:00
O401M16	Dispersal and population genetic structure in codling moth at different spatial scales <i>Eduardo Fuentes Contreras, Esteban Bascoalto, Alejandro Baroalto, Claudio Ramirez, Blas Lavandero, Pierre Franck</i>	12:00-12:10
O401M17	Simulation of distributional pattern of leafhopper with GIS <i>Satoshi Kamitani, Shun Kumashiro</i>	12:10-12:20
O401M18	Using thermal tolerance traits to test distribution model outcomes for an invasive mite, <i>Hyalotydeus destructor</i> <i>Matthew Hill, Amy Hoffmann</i>	12:20-12:30
Lunch		12:30-14:00

Code No.	Q	Presentation Title Authors, Presenting author	Time
O401M19		Linking vegetation indexes from remote sensing and long-term prospection data to help in the preventative control of desert locust Cyril Piau, Valentine Lebourgeois, Ahmed Salem Benah, Mohamed el Hacen Jaovar, Vincent Bonna, Jean-Michel Vassal, Michel Lecoq	14:00-14:10
O401M20		Comparative study based on arthropods biodiversity indicators on paddy fields between integrated pest management and conventional technologies Hagus Tarno, Gatot Mudjiono, Cicilia Nova Ratna Sari	14:10-14:20
O401M21		Impact of mass-rearing and gamma radiation on thermal tolerance of <i>Eldana saccharina</i> Walker (Lepidoptera: Pyralidae). Pride Mudevanhu, Des Conlong, Pia Addison	14:20-14:30
O401M22		Biology of exotic predator <i>Cryptolaemus montrouzieri</i> Mulsant on an invasive mealybug, <i>Phenacoccus solenopsis</i> Tinsley under laboratory conditions. Tajweer Sultana Syed	14:30-14:40
O401M23		An empirical predictive model for the flight period of the ambrosia beetle <i>Platypus koryoensis</i> (Coleoptera: Platypodinae) Youngwoo Nam, Dae-sung Won, Jong-uk Kim, Sang-Hyun Koh, Won-il Choi	14:40-14:50
O401M24		Estimates of pistachio yield losses caused in pistachio by pistachio psylla nymphs, <i>Agonosoma pistaciae</i> (Hemiptera: Psyllidae) Muhammad Reza Hassan	14:50-15:00
O401M25		Impact of different pheromone traps installation on the capture and damage intensities of fruit fly species in various host crops Muhammad Didar Gogi, Muhammad Jalal Arif, Muhammad Asghar, Anjum Suhail, Sohail Ahmed, Muhammad Ahsan Khan, Muhammad Hamid Bashir, Zain ul Abidin, Muhammad Arshad, Ali Anwar	15:00-15:10
O401M26		Status of mango stone weevil, <i>Sternonchus mangiferae</i> Fab. (Curculionidae: Coleoptera) and its area-wide management leading to control and localized eradication in south India Abraham Verghese, DK Nagaraju, Thippenahalli Narayanappa Shivananda, Marjunath R Hegde, Anvik Singh Sidhu	15:10-15:20
O401M27		Evaluation of some botanical extracts, adult food-baits, oviposition-baits, coloured egg-receptacles and cultural practices and their possible integration for IPM of melon fruit flies. Muhammad Didar Gogi, Muhammad Hamid Bashir, Muhammad Arshad, Zain ul Abidin, Muhammad Ahsan Khan	15:20-15:30
Coffee/Tea Break			15:30-16:00
O401M28		Alternative host plants of <i>Megalurathrips sjostedti</i> and <i>Frankliniella occidentalis</i> in French bean agroecosystems in Kenya Linus Muthuri Gitonga	16:00-16:10
O401M29		Biology and influential abiotic environmental variables for the beet leafhopper (<i>Circulifer tenellus</i>) in the Columbia Basin of Oregon and Washington Alexandra Murphy, Silvia I. Rondon, Andrew Jensen	16:10-16:20
O401M30		The correlation between artificial night lightings and attraction response of insect Heeja Lee, Yong-ki Kim, Youngdon Ju, Borum Park, Minseon Kim, Xuan W. Li, Mu-jie Qi, Uzieljargal Bayarsaikhan, Yong-seop Bae	16:20-16:30
O401M31		A decade with <i>Solenopsis invicta</i> (Hymenoptera: Formicidae): Taiwan's experiences on fire ant control Lekhnath Kaffie, Cheng-jen Shih	16:30-16:40
O401M32		Biological parameters and feeding efficiency of <i>Chrysoperla carnea</i> on different hosts Jan Mari Muhammad	16:40-16:50
O401M33		Morphometrics and Integrated control of <i>Macrotermes bellicosus</i> (Isoptera: Termitidae) on newly established cocoa plantation in Ibadan, Nigeria Joseph Chuka Anikwa, Feyisara Abiodun Okeola, Kehinde Kemabanta, Winifred Ayinke Makanjuola	16:50-17:00
O401M34		Distribution of potato leafminer fly, <i>Liriomyza huidobrensis</i> (Blanchard) (Diptera: Agromyzidae) and its damage in potato crops in Nepal Rameswar Maharjan, Chudevi Jung, Marc Sparleder, Jürgen Krieschel	17:00-17:10
O401M35		Area wide implementation of integrated pest management in India for cauliflower cultivated in rainy season Desh Bandhu Ahuja, M.N. Bhat, R. V. Singh	17:10-17:20
O401M36		Use of <i>Tithonia diversifolia</i> and <i>Metarhizium anisopliae</i> in a lure-and-kill approach for thrips management Sallou Niassy, Ngayo Kalemba Manloma, Ayuka T. Fomlong, Baldwin Torto, Subramanian Sevjan, Sunday Ekeji	17:20-17:30
O401M37		The effect of certain watermelon varieties on the biology of <i>Aphis gossypii</i> Glover (Hemiptera: Aphididae) Yunus Bayram, Enel Bayhan	17:30-17:40

Room 9

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
O402TH01	Evaluating alternatives to conventional pest control in Benin Codjo Euloge Togbe, Reim Hauguma, Elisabeth Zannou, Gualbert Gbehoumou, Jean Marcel Deguenan, Simplice Vodouhe, Damsou Kossou, Arnold van Huis	16:00-16:10
O402TH02	Effects of the essential oils of <i>Lavandula angustifolia</i> Mill and <i>Zataria multiflora</i> Boiss on reproduction and F1 population of <i>Callosobruchus maculatus</i> (F.) Gholamhossein Moravvej, Zahra Golestani Kalat	16:10-16:20
O402TH03	Impact of <i>Lantana camara</i> leaf extracts on development and reproductive bioactivities of <i>Dysdercus koenigii</i> Kamal Kumar Gupta, Sunil Kayesth	16:20-16:30
O402TH04	Green synthesis of silver nanoparticles (AgNps) and azadirachtin for the control of Asian palm weevil <i>Rhynchophorus ferrugineus</i> (Olivier) (Coleoptera: Curculionidae) Duralisamy Amerasan, Kadankalai Murugan, Jayapal Subramaniam, Kalimuthu Kavendan, Palanisamy Mahesh Kumar, Chellasamy Ponnuselvam	16:30-16:40
O402TH05	Screening of some citrus oils against two strains of Khapra beetle (<i>Trogoderma granarium</i>) Everts (Coleoptera: Dermestidae) collected from Vehari and Faisalabad districts of Punjab, Pakistan Mansoor Ul Hasan, Muhammad Sagheer, Qurban Ali, Imran Faraz	16:40-16:50
O402TH06	Bio-efficacy of botanicals and bio-pesticides in the management of defoliator complex of <i>Gloriosa superba</i> (Linnaeus) Mariappan Suganthi, Periyaswamy Sakthivel	16:50-17:00
O402TH07	Respiratory toxicity of <i>Thuja orientalis</i> on different life stages of <i>Tribolium castaneum</i> Monireh Taree, Rana Poorolajoubi, Nouraddin Shayeesh, Shahzad Iranipour	17:00-17:10
O402TH08	Evaluation of <i>Solenostemma argel</i> extracts for their potential larvicidal activities against <i>Anopheles arabiensis</i> Patton (Diptera: Culicidae) Amal Elsayed Edriss, Abdalla Abdelrahim Satti, Zuhair Almadhi Alabbar	17:10-17:20
O402TH09	Comparative assessment of insecticidal effect of some wood treated with plant extract on termite Sunday Adeniyi Adeduntan, Johnson Adeyinka Olusola, Adenike Razaq Jimoh	17:20-17:30
O402TH10	Toxicological and repellent impact of essential oils of <i>Citrus colocynthis</i> , <i>Citrus pardses</i> , <i>Solanum nigrum</i> and <i>Cuminum cymintion</i> against <i>Trogoderma granarium</i> (Everts) (Coleoptera: Dermestidae) Muhammad Sagheer, Mansoor ul Hasan, Ahsan Ullah Saleem, Bilal Saeed Khan, Fawad Zafar Ahmad Khan, Kazam Ali	17:30-17:40

Room 2

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
O403TU01	Deep mining of transcriptome data of four Lepidoptera pests Zhang Zou, Xue Juan, Li Fei	09:00-09:10
O403TU02	Resistance characteristics of different Brassica species to mustard aphid, <i>Lipaphis erysimi</i> Kalt. (Hom.: Aphididae) Gholamhossein Moravvej, Mojtaba Hosseini, Samaneh Roudposhti	09:10-09:20
O403TU03	Adaptation of the brown planthopper to a highly resistant rice variety PTB33 Jedelliza Ferrater, Peter de Jong, Marcel Dicke, Finbarr Horgan	09:20-09:30
O403TU04	RNA interference in the migratory locust Xianhui Wang, Yuan Luo, Le Kang	09:30-09:40
O403TU05	Screening of lethal genes for feeding RNAi by leaf disc-mediated systematic delivery in <i>Tetranychus urticae</i> Deok Ho Kwon, Ji Hyun Park, Si Hyeock Lee	09:40-09:50
O403TU06	Insect resistance to Bt plants: Time to start paying attention? Andrei Alyokhin	09:50-10:00

Code No.	Presentation Title Authors, Presenting author	Time
O403TU07	Sources of resistance in wheat to sunn pest (<i>Eurygaster integriceps</i> Puton) identified using the focused identification of germplasm strategy (FIGS) Mustapha El Bouhassini, Ken Street, Abdallah Bari, Ahmed Amri, Francis Oghonnaya, Miloudi Nachit, Mesut Kocer, Alex Morgounov	10:00-10:10
O403TU08	The shift towards controlling secondary pests on Bt-cotton and the implication thereof for Integrated pest management on Bt-cotton Annette Bennett, Hershing du Toit, Tanya Joffe	10:10-10:20
O403TU09	Reiterating the positive influence of surrounding vegetation in insect resistance management of Bt corn in a tropical country like the Philippines Merdelyn Coats LJ	10:20-10:30
Coffee/Tea Break		10:30-11:00
O403TU10	Terrestrial arthropod biodiversity in Bt corn fields: Assessing the impacts of Bt corn on non-target groups in the Philippines with special focus on uncommon or environmental indicator species Ireneo L. Lit, Merdelyn Coats-Lit, Kristine P. Abenis, Venerle Da. San Juan, Nolan Antoni Q. Manalo, Orlando L. Eusebio, Ariel R. Laronza, Aimee Lynn A. Barrion-Dupa, Loranila A. Corpus-Raros	11:00-11:10
O403TU11	Effectiveness of transgenic Bt cotton on the non-target sucking insect pest's community Muhammad Arshad, Anjum Suhail, Muhammad Dildar Gogi, Muhammad Hamid Bashir, Zain ul Abidin, Muhammad Ahsan Khan	11:10-11:20
O403TU12	Effectiveness of the Bph3 resistance gene against planthoppers in the Philippines Ainara Penabaz	11:20-11:30

O 404

Chemical Control I

Moderator: Philippos M Ioannidis (Greece)

Room 2

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
O404TU01	Evaluation of fumigant toxicity of essential oils from three medicinal plants against <i>Callosobruchus maculatus</i> adults (Coleoptera: Bruchidae) Gholamhossein Moravvej, Arzoo Heydarzade, Zahra Golestani Kalat	14:00-14:10
O404TU02	Monitoring of bifentazate and etoxazole resistance in two-spotted spider mite, <i>Tetranychus urticae</i> Sangyeon Park, Hyun-na Koo, Gil-hah Kim	14:10-14:20
O404TU03	DuPont™ Cyazypyr™ insect control (DPX-HGW86, cyantraniliprole); Product attributes that influence effective pest control and crop improvement Isaac Billy Annan	14:20-14:30
O404TU04	DuPont™ Benevia™ (DPX-HGW86, Cyazypyr™, cyantraniliprole): Control of <i>Idioscopus clypealis</i> on mango in the Philippines Oscar Degracia Edralin, Rodolfo Flores Maccatula, Reginald Aquino Quillojo, Rachel P. Lamiño, Isaac Billy Annan	14:30-14:40
O404TU05	Sulfoxaflor: A Novel insecticide for management of brown planthopper on rice Jim Xinpei Huang, Jim Dripps, Samangwang Somsak, Lakshmiapathi Srinivasulu, Lap Nguyen, Aya Kobayashi, Peng Wang, Jee Hwan Yi, Aisa Yu, John Breen, Jamey Thomas, Jan Babcock, Ikou Shirashi	14:40-14:50
O404TU06	Spinetoram, a new spinosyn insecticide for managing key insect pests of rice Jim Xinpei Huang, Jim Dripps, Samangwang Somsak, Lakshmiapathi Srinivasulu, Peng Wang, Jee Hwan Yi, Aisa Yu	14:50-15:00
O404TU07	Response to Insecticides of spotted wing drosophila from British Columbia, Canada Michael Smirle, Cheryl Zurovski, Brittany Derrick, Joan Cosentino	15:00-15:10
O404TU08	Determination of acute toxicity (LD50s) of metaflumizone to <i>Helicoverpa armigera</i> , <i>Spodoptera exigua</i> (Lepidoptera: Noctuidae) and <i>Leptinotarsa decemlineata</i> (Coleoptera: Chrysomelidae) in lab bioassays Philippos M Ioannidis, Zois Zartaloudis, Costas Bozoglou	15:10-15:20
O404TU09	Effect of DuPont Cyazypyr products on control of major pests of bulb vegetable Crops in Asia Billy Annan, Ung Park, Iskandar Zulkarnain, Lu Ren, Yasushi Tokiwa, Vineet Singh, John Wiles, Hector E Portillo, Juan M Alvarez, Ying Song	15:20-15:30
Coffee/Tea Break		15:30-16:00

- O404TU10** Effect of the extracts of *Embelia ribes* Burm. f. (Myrsinaceae) leaf on a nontarget organism, Lynx spiders: *Oxyopes lineatipes* C.L. Koch (Araneae: Oxyopidae)
Oniraj Kosulic, Chulalan Nuansuwan, Wannisa Muangmanee, Titiya Pang, Patchanee Vichitbandha 16:00-16:10
- O404TU11** Lethal effects of four insecticides on different developmental stages of *Chrysoperla carnea* Stephens (Neuroptera: Chrysopidae) in laboratory conditions
Ghulamhussain Maravvej, Javad Karimi, Ali Juyande, Akda Ayubi 16:10-16:20
- O404TU12** Investigations on the effects of two different plant extracts on the green peach aphid [(Myzus persicae) Sulzer] (Hom.: Aphididae)]
Pervin Erdogan 16:20-16:30
- O404TU13** Semi-field and field evaluations of spatial repellents for mosquitoes
Daniel Lee Kline 16:30-16:40
- O404TU14** Immunochemical techniques: Effective tool for pesticide residue detection
Prabha Sharma, Divinder Kour Kocher 16:40-16:50
- O404TU15** Studies on the evaluation of new chemistry insecticide (Spinosad) and some plant extracts against *Rhyzopertha dominica* (Fab.) (Bostrichidae: Coleoptera)
Mansoor ul Hasan, Muhammad Sagheer, Qurban Ali 16:50-17:00
- O404TU16** Influence of DuPont™ Benevia™ (Cyazypyr™, cyantraniliprole) on insect pest management and plant protection in leguminous crops in Asia
Lu Ren 17:00-17:10
- O404TU17** Effect of *Ferula assafoetida* L. essential oil on some physiological aspects of the common pistaciae psylla, *Agonoscena pistaciae* under laboratory conditions
Mahshid Samevsh, Hamzeh Izadi, Mohammad Amin Jafar, Hadi Zohdi 17:10-17:20
- O404TU18** Toxicity of acetamiprid and *Ferula assafoetida* L. essential oil against the common pistachio psylla, *Agonoscena pistaciae* under laboratory conditions
Mahshid Samevsh, Hamzeh Izadi, Mohammad Amin Jafar, Hadi Zohdi 17:20-17:30

O 405

Biological control-Natural enemy 1

Moderator: Jeong Joon Ahn(Republic of Korea), Kenneth Llewellyn Pringle(South Africa)

Room 22

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
O405TU01	<i>Gonipterus platensis</i> (Coleoptera: Curculionidae) - Present status and control strategies in colder regions of Portugal Manuela Branco, Ana Raquel Reis, Clara Araujo, Liliana Vilas Boas, Carlos Valente	09:00-09:10
O405TU02	Humidity-controlled cold storage of the predatory mite, <i>Neoseiulus californicus</i> McGregor (Acar: Phytoseiidae), an important natural enemy of spider mites Noureddin Abuelfadi Ghazy, Takeshi Suzuki, Hiroshi Amano, Katsumi Ohyama	09:10-09:20
O405TU03	Dust in apple orchards causes mite outbreaks: Fact or fiction? Kenneth Llewellyn Pringle, Joannita Hreutis, Marcel de Villiers	09:20-09:30
O405TU04	Are neonicotinoid insecticides which partially replaced organophosphate and carbamate insecticides in U.S. tree fruit safer to native pollinators and biological control? David Biddinger, Neelendra Joshi, Jacqueline Robertson, Edwin Rajotte, Chris Mullin, Mace Vaughan, James Frazier	09:30-09:40
O405TU05	<i>Phanerotoma philippinensis</i> , a potential parasitoid for managing legume pod borer, <i>Maruca vitrata</i> Sapana Yule, Srinivasan Ramasamy	09:40-09:50
O405TU06	Toxicity of insecticides to <i>Aphefinus mali</i> , the parasitoid of woolly apple aphid David John Rogers, Nandita Sharma, James Thomas Walker	09:50-10:00
O405TU07	Biological characteristic and selection of low toxic of pesticides to native predator, <i>Chrysoperla nipponensis</i> (Okamoto) (Neuroptera:Chrysopidae) for the control of mealy bugs at pear Orchard, Eunhye Ham, Jun seok Lee, Jang kyun Park, Young su Lee, Mi yeon Jang	10:00-10:10
O405TU08	Insects can enhance the biocontrol potential of pathogens against weeds: A case study on aquatic weed, waterhyacinth in South Africa Puja Ray, Martin P Hall	10:10-10:20
O405TU09	Temperature effects on development of overwintering <i>Grapholita molesta</i> (Busck) (Lepidoptera: Tortricidae) from Korean apple orchards Lalit Prasad Sah, Jeong Joon Ahn, Chulhui Jung	10:20-10:30

Coffee/Tea Break

10:30-11:00

Code No.	Presentation Title Authors, Presenting author	Time
O405TU10	Population management of invasive mealbug, <i>Phenacoccus solenopsis</i> (Tinsley) in cotton crop through different modules in Pakistan Ghulam Hussain Abra	11:00-11:10
O405TU11	Diversity and distribution of natural enemies (predators and parasitoid) of bagworms (Lepidoptera: Psychidae) on various host plants in oil palm plantation Yusdayati Rashid, Che Salmah MD Rawi, Abu Hassan Ahmad, Noor Nisham Hamid	11:10-11:20
O405TU12	Response of cotton mealybug to biological, biochemical and chemical control tactics under semi-field and field conditions Muhammad Mamon ur Rashid, Mosaad Khan Khattak, Khalid Abdullah	11:20-11:30
O405TU13	Orientation and feeding responses of <i>Cotesia plutellae</i> (Kurdjumov) (Hymenoptera: Braconidae) adults to honey and sucrose Ashok Kumar Singh, Kapinder Kumar	11:30-11:40
O405TU14	Biology of <i>Diaphorina citri</i> Kuwayama (Hemiptera: Psyllidae) and parasitism by <i>Psyllophagus stenopsyllae</i> (Tachikawa) (Hymenoptera: Encyrtidae) in Baluchistan, Iran Behnam Motamedinia, Qodratolah Sabahi	11:40-11:50
O405TU15	Persist action of some toxic pesticides on <i>Trichogramma cacoeciae</i> Marchal (Hymenoptera: Trichogrammatidae) Hayder Abdelgader	11:50-12:00
O405TU16	Effect of artificial nectars on survival of <i>Microctonus aethiopoides</i> (Hym.: Braconidae) parasitoid of <i>Hypera postica</i> (Col.: Curculionidae) Abbas Arbab, Mark McNeill	12:00-12:10
O405TU17	Effect of mass rearing of green lacewing, <i>Chrysoperla carnea</i> Stephens (New: Chrysopidae) on growth rate index during multiple generations in Mohammad Mohsen Mansaeri, Mona Moghsoodlou, Saeed Ghadiri Rad	12:10-12:20
O405TU18	Sustainable management of <i>Spodoptera litura</i> by using <i>Bracon hebetor</i> and selective insecticides Rashad Rasool Khan, Muhammad Ashfaq, Khuram Zia, Muhammad Dildar Gogi, Muhammad Arshad, Sahali Ahmed	12:20-12:30

O 406

Chemical control 2

Moderator : Gill-Ha Kim (Republic of Korea)

Room 14

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
O406W01	Azadirachtin based biopesticides influences insect head proteins in gram pod borer, <i>Helicoverpa armigera</i> Hubner (Lepidoptera: Noctuidae) Dwijendra Singh	11:00-11:10
O406W02	Natural plant compounds as insecticides for management of agricultural and veterinary pests De Villiers Fourie, Scholk van der Merwe Louw, Seef Pretorius	11:10-11:20
O406W03	Usage of insecticide spraying equipment and protective measures by cocoa farmers in Nigeria Ismaïla Adeniran Aderolu, Uche E. Asogwa, M. Idrisu, I Ndagi, J U Mokuwumye, Falaranmi Dapo Babalola, F. C. Mokuwumye	11:20-11:30
O406W04	Evaluation of novel acaricide, cyflumetofen for management of tea red spider mite, <i>Oligonychus coffeae</i> Nietner Gautam Chakraborty, Sahita Kumar Senapati	11:30-11:40
O406W05	Insecticidal efficacy of <i>Beauveria bassiana</i> (Balsamo) Vuillemin mixed with diatomaceous earth against <i>Rhyzopertha dominica</i> F. Tahira Riasat, Naveen Aziz Qureshi, Waqas Wakil, Yong Jung Kwon	11:40-11:50
O406W06	Efficacy of safer insecticides against aphid on celery Ravinder Singh Chandel, B. S. Gill	11:50-12:00
O406W07	Coadministration of wax dissolving agents with insecticides: An effective toxicity enhancing approach for the chemical control of adult female and ovisac stages of <i>Phenacoccus solenopsis</i> Muhammad Dildar Gogi, Muhammad Jalal Anil, Muhammad Hamid Bashir, Muhammad Ahsan Khan, Muhammad Faheem Akhtar, Adeel Mukhtar, Muhammad Nauman	12:00-12:10
O406W08	Pyrifluquinazon: A novel insecticide for managing <i>Bemisia tabaci</i> and transmission of Tomato Yellow Leaf Curl Virus Mariappan Suganthi, Srinivasan Rajagopal Babu, Stan Diffe, Anita Shrestha	12:10-12:20

Code No.	Presentation Title Authors, Presenting author	Time
O406W09	To determine the yield losses, caused by aphids in canola <i>Brevicoryne brassicae</i> , <i>Myzus persicae</i> , <i>Urolepis erysimi</i> under field conditions in organic and inorganic systems of farming. Muhammad Jalal Anif, Qasim Abbas, Muhammad Dildar Gogi, Hussain Ali Sayed, Muhammad Ashtaq	12:20-12:30
O406W10	Bio-activity of <i>Secamone alzelii</i> (Schult.) K. Schu, extracts for the management of seed beetles on stored cowpea seeds Jacobs Mabelade Adesina, Tomomi I. Ofuya	12:30-12:40
Lunch		12:30-14:00

0407

Biological control-Natural enemy 2

Moderator: Sopon Uraichuen(Thailand)

Room 22

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
O407F01	Prey suitability, population growth and development of <i>Orius maxidentex</i> Ghauri (Hemiptera: Anthrenidae) Athitiya Kaewpradit, Orphan Kemnart, Winat Suasat, Anuchit Chanyariyawong	09:00-09:10
O407F02	Biological control strategies against Lepidopteran pests by using egg parasitoids Elisabeth Tabone	09:10-09:20
O407F03	Biological control against the tomato leafminer, <i>Tuta absoluta</i> , by studying egg parasitoids to improve IPM strategies Hong Do Thi Khanh, Marion Trardant, Jings Chaoxiu, Nicolas Desneux, Emy Calzavara, Gilles Buisson, Frederic Rey, Anais Verrière, Julien Saguet, Pascal Miquel, Pierre Trépo, Cécile Catherine Chabrier, Jerome Lambry, Anne Terrentay, Elisabeth Tabone	09:20-09:30
O407F04	Interspecific competition of parasitoids of <i>Bactreara dorsalis</i> (Hendel) Jiahua Chen, Minlin Zheng, Qingxi	09:30-09:40
O407F05	Investigations into diploid males in the <i>Wolbachia</i> -infected parasitoid, <i>Trichogramma kaykai</i> Pinto & Stouthamer (Hymenoptera: Trichogrammatidae) Genet M Tulgetski, Richard Stouthamer	09:40-09:50
O407F06	Sugar as nutritional supplement for the zoophytophagous predator <i>Nesidiocoris tenuis</i> : Practical implications Pablo Urbaneja-Bernat, Miquel Alomar, Iratene Ujiga Mella, Kamil Bulekman, Alexandria Tena, Alberto Urbaneja	09:50-10:00
O407F07	Comparative study of suitable host plants for adult oviposition and hatching ability of the predatory bug, <i>Wollastoniella rotunda</i> (Hemiptera: Anthrenidae) Anuchit Chanyariyawong, Tewee Maneerat, Dokkudayint Hamae, Winat Suasat	10:00-10:10
O407F08	Effects of temperatures on shelf life of cocoon and adult survival for transportation of <i>Cotesia flavipes</i> (Cameron) (Hymenoptera: Braconidae) Tewee Maneerat, Winat Suasat, Anuchit Chanyariyawong	10:10-10:20
O407F09	Influence of abiotic factors on the parasitism rate of <i>Platygaster diplosisae</i> , Risbec and <i>Aprostocetus procerus</i> , Risbec on Asian rice gall midge (<i>Orseolia oryzivora</i> , Harris & Gagne) Emmanuel Omba Ogha, Francis L. Nwileke	10:20-10:30
Coffee/Tea Break		10:30-11:00
O407F10	Evaluating the added-value provided by genetic characterization methods in the classical biological control program against <i>Pseudococcus comstocki</i> (Hemiptera: Pseudococcidae) in France Thibaut Maloua, Alexandre Fleischi, Geraldine Girouard-Bout, Matthieu Deluzy, Mehdi Bessac, Sylvie Wacziarg, Nicolas Ris, Philippe Kreier	11:00-11:10
O407F11	New host record for the egg parasitoid <i>Anagrus atomus</i> (Hymenoptera: Mymaridae) of the corn leafhoppers, <i>Z. sohrab</i> , <i>E. decipiens</i> , <i>A. decedens</i> , <i>P. striatus</i> (Hemiptera: Cicadellidae) and its population Cetin Mutlu, Errol Sertkaya	11:10-11:20
O407F12	Choosing predators for biocontrol of Colorado potato beetle in the South Ural Konstantin Kibaev, Maxim Udalov, Gennadiy Benikovsky	11:20-11:30

Code No.	Presentation Title Authors, Presenting author	Time
O407F13	Introduction of <i>Anagyrus lopezi</i> for biological control of the pink cassava mealybug, <i>Phenacoccus manihoti</i> , in Thailand <i>Amporn Winotai, Prapassorn Choeikamhaeng, Rojana Wajaroen, Chalida Unahawutti, Patchareewan Maneesakorn</i>	11:30-11:40
O407F14	Biological control of the millet head miner <i>Heliocheilus albipunctella</i> De Joannis (Lepidoptera: Noctuidae) by augmentative releases of the parasitoid wasp <i>Habrobracon hebetor</i> Say (Hymenoptera: Braconii) <i>Malick Niango Ba, Ibrahima Bousa, Mamadou Ndiaye</i>	11:40-11:50
O407F15	Biological activities of emamectin benzoate and spinosad against <i>Tragoderma granarium</i> <i>Sohail Malik Akhtar, Mansoor ul Hasan, Muhammad Sagheer, Shahzad Saleem</i>	11:50-12:00
O407F16	Biological characteristics, host stage preference and preference and reproductive fitness of mealybug parasitoid <i>Aenasius bambawalei</i> Hayat (Hymenoptera : Encyrtidae) <i>Zain ul Abidin, M. Jalal Arif, Anjum Suhail, M. Ahsan Khan, Waqas Wakil, M. Dilidar Gogi, Muhammad Arshad, Fiaz Hussain</i>	12:00-12:10
Lunch		12:30-14:00

Oral Section 5 Pathology & Microbial control

0501

Pathology & microbial control

Moderator : Jae Su Kim (Republic of Korea), Philip Kessler (Switzerland)

Room 10

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
OS01TU01	Genome sequencing and structural characterization of a novel picorna-like virus in a laboratory culture of the endoparasitoid, <i>Pteromalus puparum</i> (Hymenoptera: Pteromalidae) Fei Wang, Di Fang, Gang-yin Ye	09:00-09:10
OS01TU02	The MAP kinase Bbslt2 controls growth, conidiation, cell wall integrity, and virulence in the insect pathogenic fungus <i>Beauveria bassiana</i> Yongjun Zhang	09:10-09:20
OS01TU03	Baculoviruses - a useful tool for IPM strategies Philip Kessler	09:20-09:30
OS01TU04	Integrated pest management through sub-lethal synergy between chemical insecticides and entomopathogenic fungi Justin Louis Hatting, Nokutunga Maimela	09:30-09:40
OS01TU05	Genetic evidence for a role of prophenoloxidase 1 in the <i>Drosophila</i> immune response Olivier Blinngell, Mickael Poidevin, Bruno Lemaire	09:40-09:50
OS01TU06	The damage efficiency of <i>Metarhizium anisopliae</i> and <i>Beauveria bassiana</i> on the larvae of coffee white stem borer <i>Xylotrechus quadripes</i> (Cherrolat) (Coleoptera: Cerambycidae) under laboratory conditions Arporn Puntongum, Sa-ngiam Phakom, Sopon Uraichuen, Kijai Chitramorn	09:50-10:00
OS01TU07	Various infection status and molecular evidence for horizontal transmission and recombination of <i>Walbachia</i> and <i>Cardinium</i> among rice planthoppers and related species Kai-Jun Zhang, Xiao Han, Wen-Chao Zhu, Xiao-Yu Hong	10:00-10:10
OS01TU08	Effects of <i>Maruca vitrata</i> multiple nucleopolyhedrovirus on non-target insect pests and natural enemies Srinivasan Ramasamy, Mei-Ying Lin, Yun-Chu Hsu, Chun-Chu Huang	10:10-10:20
OS01TU09	Localization of deformed wing virus (DWV) and Korean sacbrood virus (KSBV) in olfactory organs of honeybees Ki-bae Hong, Je Won Jung, Hyung Wook Kwon	10:20-10:30
	Coffee/Tea Break	10:30-11:00
OS01TU10	Biological control of <i>Plutella xylostella</i> L. and <i>Aedes aegypti</i> L. larvae by using <i>Bacillus thuringiensis</i> Fusants Siti Sumarmi, Sebastian Margina, Damar Tri Boewono, R.C. Harlyati Sarsylohadit, Rina Wahyu Cahyani	11:00-11:10
OS01TU11	White grub pathogens and characterization of scarab species in Mauritius and Tanzania Nirupa Behary Paray, Nyembezi Mgachekhi, Shabani Mmanga	11:10-11:20
OS01TU12	Effects of entomopathogenic fungal endophytes on mortality, oviposition, emergence and longevity of <i>Liriomyza huidobrensis</i> (Diptera: Agromyzidae) Kameli Senyo Akutse, Nguya Kalamba Mamonja, Kimi Kauma Mokopolga Fichae, Jahnus Van den Berg, Sunday Ebesi	11:20-11:30
OS01TU13	Epidemiological studies on tick and mange infestation in camels in Pakistan (Cholistar, Bahawalpur) Fiaz Muhammad Qamar	11:30-11:40
OS01TU14	Effect of <i>Xenorhabdus nematophila</i> on <i>Microplitis mediator</i> Haliday Ziyun Wangang, Shan-Shan Feng, Ping Song, Qiu-Ping Wang	11:40-11:50
OS01TU15	Bark beetle, <i>Hypocryphalus mangiferae</i> Stebbing (Coleoptera: Curculionidae: Scolytinae) is a vector of mango Shafiqat Saeed, Assad Masood, Yang Jong Kwon	11:50-12:00
	Lunch	12:30-14:00

Oral Section 6 Medical Entomology

0 601

Medical entomology: Surveillance & ecology

Moderator: Lee William Cohnstaed (U.S.A.)

Room 14

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
O601M01	Entomological surveillance on a continental scale: A new application of social networking <i>Lee William Cohnstaedt, Elin Maki</i>	11:00-11:10
O601M02	Mosquito monitoring program at Honolulu International Airport, Hawaii <i>Jeonhee Mun Hasty, Ping Yang, Peter Oshiro, Lynn Nakasone, Gary Gil</i>	11:10-11:20
O601M03	<i>Culex molestus</i> and implications for mosquito-borne disease risk in Australia <i>Nur Faeza Abu Kassim, Cameron E. Webb, Richard C. Russell</i>	11:20-11:30
O601M04	<i>Aedes aegypti</i> productivity and fecal contamination in domestic water storage containers in two villages in Northeastern Thailand <i>Nisa Dada, Nanthasane Vannavong, Razak Seidu, Audrey Lenhart, Thor-Axel Sterstrom, Theeraphap Chareonwinyaphap, Hans Jørgen Overgaard</i>	11:30-11:40
O601M05	African Horse Sickness, its <i>Culicoides</i> (Diptera: Ceratopogonidae) vector and Hartmann's mountain zebra in the south-west Khomas Region, central Namibia <i>Hilbrecht Van Hamburg, Eibe Becker</i>	11:40-11:50
O601M06	Survey of some bionomic factors of <i>Culex tritaeniorhynchus</i> (Diptera: Culicidae) as vector of Japanese Encephalitis (Brain fever) <i>Mohammad Reza Fakooriziba, Fariba Eghbal, V.A. Vijayan</i>	11:50-12:00
O601M07	Survey of some epidemiological factors of visceral leishmaniasis transmitted by <i>Phlebotomus sandflies</i> (Diptera: phlebotomidae) in south of Iran <i>Fariba Eghbal, Pegah Kheradchahi, Mohammad Reza Fakooriziba, Hossein Eghbal</i>	12:00-12:10
O601M08	Goat hoof myiasis caused by <i>Wohlfahrtia magnifica</i> (Diptera: Sarcophagidae) larva in Dashte-arjan region, Fars, Iran <i>Hamzeh Alipour, Masoud Neghab</i>	12:10-12:20
O601M09	Ecology of malaria vectors in southern part of Iran <i>Abdolreza Rajaeifar, Mahmood Reza Nikbakhtzadeh, Hamzeh Alipour</i>	12:20-12:30
Lunch		12:30-14:00

0 602

Control of medical insects

Moderator: Kyusik Chang (Republic of Korea), Il Hwan Kim (U.S.A.)

Room 10

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
O602TH01	Toxin peptide produced by <i>Xenorhabdus</i> species with a novel mode of action against yellow fever mosquito larvae, <i>Aedes aegypti</i> <i>Il Hwan Kim, Jerald Ensign, Que Lan</i>	14:00-14:10
O602TH02	Potent repellents for control of savannah tsetse (<i>Glossina</i> sp.) <i>Rajindar Salim, Norber Mbatia, Hippolyte Affognon, John Andaka, Peter Muasa, Tiberius Marete, David Mbitui, John Nyilela</i>	14:10-14:20
O602TH03	The use of entomopathogenic fungi in the control of tsetse flies <i>Jean Nguya K., Maniania, Sunday Ekoi</i>	14:20-14:30
O602TH04	Cost efficient control of tsetse flies <i>Johan Esterhuizen</i>	14:30-14:40
O602TH05	New tools for addressing insecticide resistance in malaria vectors <i>Tessa B. Knox, Elijah Juma, Helen Potes Jamer</i>	14:40-14:50
O602TH06	Implications of larval density-dependence processes on malaria vector control strategies in Kenya <i>Simon Muriu, Tim Coulson, Charles Mboya, Charles Godfrey</i>	14:50-15:00

Code No.	Presentation Title Authors_Presenting author	Time
O602TH07	Evaluating the potential of the sterile insect technique for malaria control: Relative fitness and mating compatibility between laboratory colonized and a wild population of <i>Anopheles gambiae</i> Givemore Mumbenge, Givemore Mumbenge	15:00-15:10
O602TH08	Cow dung, medicinal plants and intermittent irrigation strategy for anopheles mosquito management in Ahero rice paddies Elizabeth Dorothy Kokwaro, Michael Gicheru, Michael Kahoto, Dalmas Ogingo	15:10-15:20
O602TH09	Performance of new products against <i>Aedes aegypti/albopictus</i> under laboratory and field conditions: A preparatory approach following the 2011 dengue epidemic in Pakistan Waseem Akram, Jaz Qureshi, Hafiz Azhar Ali Khan, Mirza Jawad Hassan, Puzwan Ahmad	15:20-15:30
	Coffee/Tea Break	15:30-16:00
O602TH10	Role of public participation and interventions in dengue management Waseem Akram, JongJun Lee, Hafiz Azhar Ali Khan	16:00-16:10
O602TH11	Repellency of cassia bark, Eucalyptus and Star anise oils and their major constituents to <i>Leptotrombidium pallidum</i> (Acari: Trombiculidae) Kyu Sik Chang, E Hyun Shin, Mi Yeoun Park, Bong Gu Sang, Dong Kyu Lee, Young Joen Ahn	16:10-16:20
O602TH12	Histopathological effects of pellictorine on larval midgut epithelium and anal gills toward <i>Aedes aegypti</i> (Diptera: Culicidae) Haribalan Perumalsamy, Jun-Ran Kim, Young Joen Ahn	16:20-16:30
O602TH13	Insecticide resistance in dengue and malaria vectors and consequences for vector control Vincent Corbel, Sébastien Marcombe, Jean Philippe Dury, Fabrice Chandie, André Yvankima, Mary Ranson	16:30-16:40
O602TH14	Sumilarv® 0.5G, Promising insecticide for the control of <i>Anopheles gambiae</i> Oscar Ochling Mbare, Ulrike Füllinger, Steve Lindsay	16:40-16:50
O602TH15	Scientists and public involvement: A consultation on the relation between malaria, vector control and transgenic mosquitoes Christophe Boete	16:50-17:00
O602TH16	Technical basis for deployment of a combination long lasting insecticidal net in areas of pyrethroid resistance Helen Victoria Pates Jamet, Tessa B. Knox	17:00-17:10

O 603

Physiology of medical insects

Moderator: Shih-Feng Shiao (Taiwan)

Room 8

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
O603F01	Bacteria and fungi species associated with digestive system of <i>Blattella germanica</i> L. collected in spring and autumn from various parts of a public hospital in Mashhad, Iran Gholamhassan Moravvej, Mahboobeh Naderi Nasab, Sahar Chitsazi, Zahra Moravvej	09:00-09:10
O603F02	Expression profile analysis of detoxification genes in different life stages of <i>Anopheles funestus</i> Riann N. Christian, Nanette Coetzee, Hilary Ranson, Riann N. Christian, Lorette L. Roekelien	09:10-09:20
O603F03	Physiological tolerances and species distribution modelling of two malaria vectors Candice-Lee Lyons, Maureen Coetzee, John S. Terblanche, Steven L. Chown	09:20-09:30
O603F04	Susceptibility of <i>Anopheles barbirostris</i> complex to <i>Plasmodium falciparum</i> and <i>Plasmodium vivax</i> in Thailand Sarwat Thongsathien, Visut Baimai, Anuruck Aunkun, Aporn Saeng, Wai Chinnachote	09:30-09:40
O603F05	Possible factors that induce nocturnal activities of blow flies (Diptera: Calliphoridae) Shih-Tsai Yang, Shih-Feng Shiao	09:40-09:50
O603F06	Gregarious oviposition of blow flies (Diptera: Calliphoridae) Shih-Feng Shiao, Shih-Feng Shiao	09:50-10:00
O603F07	Body size measurements as quality indicators in <i>Aedes aegypti</i> mosquitoes destined for field release Heng An Yeap, Nancy Margaret Endsley, Petrus Johnson, Scott Ritchie, Amy Anthony Hoffmann	10:00-10:10

Code No.	Presentation Title Authors_Presenting author	Time
O603F08	Effectiveness of Bti-based product from Bti cells cultivated by using glutamic acid mother liquor, a waste of monosodium glutamate production <i>Laolano Chawanaditai, Nuntaporn Phonsuwan, Pannichai Wiriyasawanand, Narong U-Mai</i>	10:10-10:20
O603F09	The effect of blood feeding on gene expression in insecticide resistant <i>Anopheles funestus</i> <i>Bellinda Lea Spillings, Basil Desmond Brooke, Maureen Coetzee, Lizette Koekemoer</i>	10:20-10:30
	Coffee/Tea Break	10:30-11:00
O603F10	Characterization of akirin in the South African malaria vector <i>Anopheles arabiensis</i> , and its importance as a novel tool to serve as a vector control intervention <i>Annette Bennett, Rionn N. Christan, Christine Moritz-Olivier, Lizette L. Koekemoer</i>	11:00-11:10
O603F11	Differential proteomic study of <i>Plasmodium falciparum</i> -infected and non-infected salivary glands of <i>Anopheles gambiae</i> , to a biomarker of infective bites <i>Alexandra Marie, Sylvie Cornille, Marie Rossignol, Edith Demetree, Martial Seveno, Majoline Tchicoffo Tsapi, Vincent Carbel, Fabrice Chandre, Isabelle Marlot, Franck Remoue</i>	11:10-11:20
O603F12	Electric nets and sticky materials for studying oviposition behaviour of gravid malaria vectors <i>Sisay Dugassa, Jenny Lindh, Steve Tort, Florence Oyieke, Steve Lindsay, Ulrike Fittinger</i>	11:20-11:30
O603F13	Development of <i>Plasmodium berghei</i> in <i>Anopheles funestus</i> <i>Te-chang Mike Lo, Lizette Leonie Koekemoer, Maureen Coetzee</i>	11:30-11:40
O603F14	<i>Aedes aegypti</i> and <i>Aedes albopictus</i> breeding receptacles and their association with the number of dengue cases reported <i>Waseem Akram, Jong Jin Lee, Hafiz Azhar Ali Khan</i>	11:40-11:50
O603F15	Population genetic structure of the major malaria vector <i>Anopheles funestus</i> s.s. and allied species in southern Africa <i>Rwang Shik Chal, Lizette L. Koekemoer, Maureen Coetzee</i>	11:50-12:00
O603F16	DNA barcoding of the mosquito genus <i>Culex</i> (Diptera, Culicidae) <i>Yvonne-Marie Linton, Jacques Dubois</i>	12:00-12:10
O603F17	Effect of Ketamine hydrochloride on the development of a forensically important blow fly <i>Chrysomya megacephala</i> (Fab.) (Diptera: Calliphoridae) <i>Devinder Singh, Bhupinderjeet Kaur</i>	12:10-12:20
O603F18	Development of an immuno-epidemiological biomarker for evaluating the exposure to the bites of <i>Aedes aegypti</i> mosquito <i>Emmanuel Elianga Ndille, Doucoure Souleymane, François Mouchet, Damien Georgia, Pape Drame, Herbert Nankpa, Nicolas Molroux, Dorothee Misse, Martin Akiabeta, Vincent Carbel, Marie-claire Henry, Fabrice Chandre, Thierry Boleet, Franck Remoue</i>	12:20-12:30
	Lunch	12:30-14:00

Oral Section 7 Entomology: General

0 701

Entomology: General 1

Moderator: Celia Regina Ribeiro da Silva Carlini (Brazil)

Room 21

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
0701M01	Preliminary study on Ketosynthase gene in <i>Paederus Fabricius</i> Zhiping Liu, Anjun Wang	16:00-16:10
0701M02	Synchrotron X-ray microtomography and digital 3D imaging for examining insect morphology Thomas van de Kamp, Tommy dos Santos Rolo, Rank Vagovic, Alexander Rydel, Tilo Baumkorth	16:10-16:20
0701M03	Origin of the luminescence system in firefly Yuichi Oba	16:20-16:30
0701M04	Formation of germ band in <i>Diplura</i> , with special reference to the differentiation of germ layers (Hexapoda) Keoru Sekiya, Ryuchiro Machida	16:30-16:40
0701M05	The spruce budworm genome takes flight: Current endeavours and direction in sequencing the <i>Choristoneura fumiferana</i> genome Michel Cussan, Hakim Maroufi, Audrey Nisole, Brian Boyle, Jerome Lavache, Catherine Beliveau, Ivana Kukavica-Ibrulj, Daniel Doucet, Christopher Lucanotti, Felix Spreng, Lisa Lumley, Bryan Binnet, Heather Bird, Vince Nealis, Roger Levesque	16:40-16:50
0701M06	Entomotoxic and membrane-disturbing properties of urease and derived peptides Celia Regina Ribeiro da Silva Carlini, Anne H. S. Martinelli, Angela Regina Pavesian, Katrin Kappoun, Cristian Falmer, Jean-Louis Schwartz	16:50-17:00
0701M07	Differences in egg morphology between coleopteran and lepidopteran stored-product insect pests in relation to tolerance to fumigants Sandipa G. Gautam, George P. Opi, Spencer Wolfe, Dennis Morgan	17:00-17:10
0701M08	Analysis of a chromosomal region harboring the sex determination locus in the yellow fever mosquito <i>Aedes aegypti</i> Elzbieta Krzywinski, Vladimir Kofaza, Maron Morris, Elenn de la Casa-Exerun, Alexander Raikhet, Jaroslaw Krzywinski	17:10-17:20
0701M09	Egg structure and embryonic development of <i>Eucarydia yasumatsui</i> Asahina (Blattodea, Polyphagidae) Mari Fujita, Ryuchiro Machida	17:20-17:30

0 702

Entomology: General 2

Moderator: Susumu Katsuma (Japan)

Room 20

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
0702TU01	Weevil evolution and differential gene expression in the development of the rostrum Steven R. Davis, Paulyn Cartwright, Michael Engel	16:00-16:10
0702TU02	Microsatellite markers in the era of Next-Generation DNA sequencing: Informative and cheap genetic markers for entomological research Thibaut Malausa, Andre Giles, Emese Megyesi, Stephanie Feneveu, Jean-Francis Martin	16:10-16:20
0702TU03	Genetic structure of the mealybug <i>Pseudococcus viburni</i> (Hemiptera: Pseudococcidae) populations worldwide Margarita Correa, Eric Lombaert, Tania Zaviezo, Thibaut Malausa	16:20-16:30
0702TU04	Sex determination genes and <i>Wolbachia</i> in Queensland fruit fly, <i>Bactrocera tryoni</i> Jennifer Morrow, Deborah Shearman, Marianne Frommer, Markus Riegler	16:30-16:40
0702TU05	Clearance of an errantivirus sequence in the production process of trivalent recombinant hemagglutinin (rHA) influenza vaccine, FluBlok® Yoshifumi Hashimoto, Katsiyo A. Rizzo	16:40-16:50
0702TU06	Growth performance evaluation and productivity of <i>Bombyx mori</i> (L) (silkworm) fed with three varieties of <i>Morus alba</i> (L) Mulberry plant Falake Rachael Ogunfeye, Oluwemimo Dorcas Popoola	16:50-17:00

Code No.	Presentation Title Authors, Presenting author	Time
O702TU07	Ultrastructure of the antennal sensory organs of two <i>Fannia</i> species Yi-Du Chen, Ming Zhang, Xian-Hui Liu, Yan-Zhi Yong, Qi-Ke Wang, Dong Zhang	17:00-17:10
O702TU08	The molecular genetics of the oily (translucent) mutants in the silkworm, <i>Bombyx mori</i> Linyan Wang, Takashi Kuchi, Yutaka Banno, Murewing Li, Susumu Katsuma, Toru Shimada	17:10-17:20
O702TU09	Assembly of empty Israeli acute paralysis virus capsids in baculovirus infected insect cells Ian Jones, Abigail Cone, Jutyuan Ren	17:20-17:30

O 703

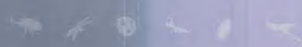
Entomology : General 3

Moderator : Amol Prabhakar Patwardhan (India)

Room 20

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
O703F01	Olfaction in a vector fruitfly <i>Phortica variegata</i> Siju Kunhi Parayil, Domenico Ottavio, Riccardo P. Lia, Ilana C. Grunwald Kadov	09:00-09:10
O703F02	Sexual conflict among the lichen tuft moths. Rebecca Bennik	09:10-09:20
O703F03	Interactions between native insects and Australian invasive acacias in Europe Palma Maria-Rosa, Silva Pedro Ribeiro, Ruas Sora	09:20-09:30
O703F04	Enhancement of fruit quality in green pepper through pollination by <i>Hypotrigena gribodoi</i> in small scale farms in western Kenya Kiatoko Nkoba, Suresh Kumar Ralna, Ellud Muli, Jones Mueke	09:30-09:40
O703F05	Research and utilization of Chinese gall aphids (Hemiptera: Aphididae: Fordini) in China Zixiang Yang, Xiaoming Chen, Ying Feng, Ping Liu	09:40-09:50
O703F06	Evolution and biogeography of <i>Bombyx mandarina</i> compared with the domesticated <i>mori</i> revealed by Bayesian inference of DNA sequences data from some transposons including mariner-like elements (MLEs) Yumiko Nakajima, Shigeki Nakagome, Shuhei Mano	09:50-10:00
O703F07	Queen selection in three genera of social wasps of tribe Epiponini (Vespidae: Polistinae) Laura Chavarria, Fernando Noll	10:00-10:10
O703F08	ButterflyIndia: Cyber community initiative to document Indian butterflies Vijay Vasant Barve, Amol Prabhakar Patwardhan, Arjun Basuray	10:10-10:20
O703F09	Progress of eriophyoid mite research in China (Acari: Eriophyoidea) Xiao-feng Xue, Xiao-yue Hong	10:20-10:30
Coffee/Tea Break		10:30-11:00
O703F10	Undergraduates gain experiential learning experience through unique pollination biology research program Sujaya Rao, Sandra DeBano, Andrew Moldenke	11:00-11:10
O703F11	Biorational control of kalyd pest on oil palms in Papua New Guinea Genet M Tulgetse, Thomas Albert Miller	11:10-11:20
O703F12	Prevention of incursion of coffee berry borer (<i>Hypothenemus hampei</i>) into Papua New Guinea and implementation of national surveillance scheme. Bryony Taylor, Sean T Murphy	11:20-11:30
O703F13	Efficient production of knockout crickets using ZFNs and TALENs Takahito Watanabe, Hiroshi Ochiai, Tetsushi Sakuma, Taro Nakamura, Taro Mito, Takashi Yamamoto, Sumihare Naji	11:30-11:40
O703F14	The change of fauna and soil characteristics for Saemankum reclaimed region in Korea Hong-Yul Seo, Ki-Kyung Kim	11:40-11:50
O703F15	An update of traps and targets for surveillance and management of the stable fly, <i>Stomoxys calcitrans</i> , in the U.S.A. Jerome Adkins Hogsette	11:50-12:00
O703F16	The role of urban wastewater farms as a common denominator for malaria and diarrhoeal disease transmission Razak Seidu, Amina Abubakari, Robert Clement Abaloo, Hans Overgaard, Thor Axel Stenstrom	12:00-12:10
Lunch		12:30-14:00



XXIV
International
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General-Poster

Section 1 Taxonomy

August 20-22 (Mon-Wed)

Code No.	Presentation Title Authors, Presenting author
PS1M001	Madagascar's millipede assassin bugs (Hemiptera: Reduviidae: Ectrichodiinae): Taxonomy, phylogenetics and sexual dimorphism Michael Forthman, Christiane Weidlich
PS1M002	Phylogenetic reconstruction of the <i>Papilio memnon</i> complex suggests multiple origins of mimetic colour pattern and sexual dimorphism Chia-Hsuan Wei, Mathieu Joron, Shen-Han Yen
PS1M003	The evolution of host utilization and shelter building behavior in the genus <i>Parapaynx</i> (Lepidoptera: Crambidae: Acentropinae) Ling-Ying Tsai, Chia-Hsuan Wei, Shen-Han Yen
PS1M004	Phylogenetic analysis of the spider mite family Tetranychidae Tomoko Matsuda, Norihide Hiramoto, Maiko Munehira, Yasuki Kitashima, Tetsuo Gotoh
PS1M005	A pteromalid (Hymenoptera: Chalcidoidea) parasitizing larvae of <i>Aphidoletes aphidimyza</i> (Diptera: Cecidomyiidae) and the first finding of the facial pit in Chalcidoidea Kazunori Matsuo, Junichiro Abe, Kazuko Anomura, Atsushi Yukawa
PS1M006	Population genetics of common Palearctic solitary bee <i>Anthophora plumipes</i> (Hymenoptera: Anthophoridae) in whole species areal and result of its recent introduction in the USA Katerina Cerna, Pavel Munclinger, Jakub Straka
PS1M007	Multiple nuclear and mitochondrial DNA analyses support a cryptic species complex of the global invasive pest, <i>Bemisia tabaci</i> (Gennadius) (Insecta: Hemiptera: Aleyrodidae) Chia-Hung Hsieh, Hsiang-Yi Wang, Cheng-Man Chung, Chien-Hung Chen, Chien-Ching Ko
PS1M008	Diverse neuropterans in the Mesozoic Ecosystems of Northeastern China Yangjie Wang, Dong Ren
PS1M009	A developmental approach to the evolution of female wing regression in bagworm moths (Lepidoptera, Psychidae) Shuhei Nitsui
PS1M010	Formation of abdominal appendage-like swellings in the <i>Carabus insulicola</i> embryo (Coleoptera, Carabidae): The possible relationship to the aquatic origin of Adepahga Kazuhiro Nikiura, Yasuki Oosawa, Yasuaki Tokomi, Yukimasa Kobayashi
PS1M011	South American "jewel acrolepiids": A molecular phylogeny based on 8 genes reveals they represent a novel lineage of <i>Argyresthiidae</i> (Lepidoptera: Yponomeutoidea) Jae-Cheon Sohn, Charles Mitter, Jerome Regier
PS1M012	Braconidae and Ichneumonidae (Hymenoptera) associated with corn pests <i>Spodoptera frugiperda</i> (Lep., Noctuidae) and <i>Dichomeris famulata</i> (Lep., Gelechiidae) with descriptions of new species Angelica Penteado Dias, Ivy Frizo Melo, Rafael Braga Silva, Nan Cruz
PS1M013	New contributions to knowledge of pimelinine wasps (Hymenoptera, Ichneumonidae) from Brazil Angelica Penteado Dias, Ana Paula Silva Loffredo
PS1M014	<i>Myrtlemiris</i> , a new genus and new species of Australian plant bugs (Insecta: Heteroptera: Miridae): Systematics, phylogeny and host associations Marino Cheng, Anouk Mutanen, Geraldus Cayss
PS1M015	Morphological antennal sensilla in some importance forensic flies in Saudi Arabia Soud Mohammed Alsaqabi
PS1M016	A revision of the genus <i>Morophagoides</i> Petersen (Lepidoptera, Tineidae) in Japan Yohel Osada, Toshiya Hirawata, Makoto Sakai, Shin-ichi Yoshimatsu
PS1M017	Comparative study of hind-wing venation of Cerambycinae (Coleoptera: Cerambycidae) from China Li Chen, Lichao Tian, Zhu Li
PS1M018	Occurrence of an undescribed <i>Metapocyrtus</i> species attacking <i>Hedera helix</i> in Japan (Coleoptera: Curculionidae: Entiminae) Hiraku Yoshitake
PS1M019	Bagworms (Lepidoptera: Psychidae) of the European part of Russia Julia Lavtsova

Code No.	Presentation Title Authors, Presenting author
PS1M020	"What is <i>Tipula</i> (<i>Nippotipula</i>) <i>coquillettii</i> ?" Determined by the holotype examination (Diptera: Tipulidae) Takashi Torii
PS1M021	Divergence time estimation of fern-feeding sawflies Yulchi Isaka, Toshiyuki Sato
PS1M022	Solitary and social halictine bees collected by the Kyushu University expeditions to Central Asia Ryuki Murao, Osamu Tadouchi
PS1M023	Discrimination methods of a migratory pest, <i>Spodoptera exempta</i> occurred in Japan for the first time in 2010 from other similar Japanese pests of the genus <i>Spodoptera</i> Guenee (Lepidoptera: Noctuidae) Daisuke Watabiki, Shin-ichi Yoshimatsu, Hiroku Yoshitake, Yuki Baba, Takumi Uesato, Masayuki Shimatani, Hiroshi Ibusuki, Totiyo Yuda
PS1M024	Genetic structure of <i>Aeolesthes aenochrous</i> (Coleoptera: Cerambycidae) in Taiwan Chien-Hsien Chia, Wen-Bin Yeh, Man-Miao Yang
PS1M025	The phylogeny and host specificity of gall midges (Diptera: Cecidomyiidae) inducing similar spindle-shaped leaf galls on ten <i>Quercus</i> L. (Fagaceae) species in Taiwan Hsin-Yen Tsai, Man-Miao Yang
PS1M026	Studies on geometridae larvae (Lepidoptera) and its parasitoids in southeastern Brazil Manoel Martins Dias, Carolina Silva Souza, Mariana Geraldo, Angelica Penteado Dias
PS1M027	Phylogeography of four stag beetle groups (Coleoptera, Lucanidae) in the Ryukyu Archipelago, Japan Tadatsugu Hosoya, Kunio Araya
PS1M028	Evaluation of the secondary structure of 16S rRNA for molecular phylogeny of Schizophora clade (Diptera: Brachycera) Ana Carolina Martins Junqueira, Daniel Fernando Paula, Ana Maria Lima Azeredo-Espin
PS1M029	Taxonomic study on <i>Cryptocercus</i> Scudder Dong Wang, Yanli Che, Zongqing Wang
PS1M030	Analyses of the mating behavior of the Japanese <i>Aulopus carbonarius</i> species-complex (Hymenoptera, Pompilidae) Hiroaki Kurushima, Akira Shimizu
PS1M031	The taxonomic study of the family Stygothrombiidae (Prostigmata: Acari) Takuya Nagasawa, Hiroshi Abe
PS1M032	'Embioptera problem' in relation to an enigmatic taxon Timematodea Natsuo Komoto, Kenji Yukuhira, Shuichiro Tamita
PS1M033	Taxonomic overview in marine water mites Pontarachnidae Akira Moto, Hiroshi Abe
PS1M034	Summary of four years of DNA barcoding on Pseudococcidae and their parasitoids Thibaut Malausa, Jean-François Germain, Arelvandre Beltra, Margarita Correa, Aline Bertin, Shaaban Abd-Rabou, Hassan Shalaby, Ernesto Prada, Tamotaru Murai, Giuseppina Pollazzani, Emilio Guernieri, Gerard Delvaux, M. Bora Kaydan, Geraldine Groussier-Bout, Sylvie Wariot, Aurelie Bün, Didier Crochard, Philippe Kreitler, Nicolas Ris
PS1M035	A comparative survey of proboscis morphology in tiger moths (Lepidoptera: Erebiidae: Arctiinae) Katherine Habanek, Stacey Coy, Susan Welles, Jennifer Zaspel
PS1M036	Species of <i>Acizzia</i> (Hemiptera: Psyllidae) as potential new economic pests of solanaceous crops Gary Taylor, Deborah Kent, Alan Yen
PS1M037	Genetic variation and phylogeographic inference of alpine ground beetle (Coleoptera, Carabidae, Nebrini) in Taiwan Yi-Min Weng, Wen-Bin Yeh, Man-Miao Yang
PS1M038	Morphological description of <i>Ptychocroca galenia</i> Brown & Razowski (Lepidoptera: Tortricidae) immature stages in laboratory conditions Lourdes Peralta, Margarita Correa
PS1M039	Revision of Western Japanese <i>Galloisiana</i> (Grylloblattodea): From a standpoint of female body characters Toshiki Uchifune
PS1M040	Taxonomic study of the genus <i>Altica</i> (Coleoptera: Chrysomelidae: Alticinae) from Japan, with emphasis on the morphology of the male and female genitalia, and mouth parts Haruki Suenaga

Code No.

Presentation Title
Authors Presenting author

- PS1M041 The morphology of the apical portion of abdomen in the Genus *Malithodes* (Coleoptera: Cantharidae): search for taxonomic characters in male and female
Naoki Takahashi
- PS1M042 Rediscovery of Ludlow's Bhutan Glory, *Bhutanitis ludlowi* Gabriel (Lepidoptera: Papilionidae): Morphology, biology and biogeography
Motohiro Harada, Karma Wangdi, Sonam Wangdi, Masayuki Yago, Toshiaki Aoki, Yoshiko Igarashi, Shuhei Yamaguchi, Yasuyuki Watanabe, Sherub Rinchen Wangdi, Sonjay Drukpa, Motoki Saito, Yoshitaka Moriyama, Taku Uchiyama
- PS1M043 World Larinae (Coleoptera: Elmidae) - Taxonomy, phylogeny and distribution
Fedor Ciampor Jr, Kristina Lastova, Zuzana Ciamporova-Zatovicova
- PS1M044 The preliminary phylogeny of the Epicopeiidae (Lepidoptera, Geometroidea)
Chia-Hsuan Wei, Shen-Han Ren
- PS1M045 Asian Species Information Databases KONCHU and AIIC Based on Asian Insects
Osamu Tadauchi
- PS1M046 Status of Phalangopsidae (Orthoptera, Grylloidea) from the atlantic forest of Brazil: Diversity, distribution and founds of recent expeditions
Pedro Guilherme Barrios de Souza Dias, Marcio Perez Boffman
- PS1M047 Phylogeny of the neotropical social wasp *Synocca* (Hymenoptera, Vespidae, Polistinae)
Fernando Barbosa Noll, Luis Fernando Francisco Gelin, Roduan Alexandre Soverani
- PS1M048 Ants diversity on agroecosystems in the Tak Province, Thailand
Chamaiporn Buames, Chalida Unthaisuri
- PS1M049 Three new species of the genus *Hylaeus* (Hymenoptera: Colletidae) from South Korea
Huan Chen, Huanli Xu
- PS1M050 Revision and phylogeny of Chinese *Phaeton latreille* and related genera (Coleoptera: Chrysomelidae: Chrysomelinae)
Shiqin Ge, Mauro Daccordi, Jun Zhi Cui, Xing Ke Ying
- PS1M051 Taxonomic revision of the family Issidae from Korea (Homoptera: Fulgoroidea)
Mohammad Atikur Rahman, Yong Jung Kwon, Eun Yeop Huh
- PS1M052 Taxonomic revision of the family Tettigometridae from Korea (Homoptera: Fulgoroidea)
Mohammad Atikur Rahman, Yong Jung Kwon, Sang Jae Suh
- PS1M053 A molecular rhylogenetic study of the Korean Omaliinae MacLeay (Coleoptera: Staphylinidae)
Tae-Ryu Kim, Kee-Jeong Ahn
- PS1M054 Generic review of the tribe Athetini (Coleoptera: Staphylinidae: Aleocharinae) in Korea
Seung-Gyu Lee, Kee-Jeong Ahn
- PS1M055 Phylogeny of the subtribe Homalotina Heer (Coleoptera: Staphylinidae: Aleocharinae)
Yoon-Ho Kim, Kee-Jeong Ahn
- PS1M056 A review of the coastal Staphylinidae (Coleoptera) in Korea
In-Seong Yoo, Kee-Jeong Ahn
- PS1M057 Diversity of diving beetles (Coleoptera: Dytiscidae) in Korea
Dae-Hyun Lee, Kee-Jeong Ahn
- PS1M058 Korean species of the genus *Lordithon* Thomson (Coleoptera: Staphylinidae: Tachyporinae)
Young-Gyu Ban, Kee-Jeong Ahn
- PS1M059 A taxonomic review of the subfamily Anteoninae (Hymenoptera: Chrysidoidea: Dryinidae) from South Korea, with description of a new Species
Chang-Jun Kim, Jong-Wook Lee
- PS1M060 The distribution of *Autocrates maqueti* (Coleoptera: Tricentenotomidae) in Korea
Jiyoung Park, Kyung Ho Kim, Seung Joon Park, Jong Kyun Park, Jong Eun Lee, Jin Young Park, Myung Jin Kim
- PS1M061 A preliminary report of the Family Therevidae in Korea (Diptera: Asiloidea).
Dong-Han Kim, Ho-Yeon Han
- PS1M062 Taxonomic review of the genus *Epistrophe* (Diptera: Syrphidae) in Korea
Hak-Seon Lee, Seul-Mo-Ra Hwang, Hee-Joon Han
- PS1M063 A preliminary list of the family Tachinidae (Diptera) in Korea
Han-saem Lee, Hye-woo Byun, Hyun-suk Lee, Jung-su Lee, Dong-jun Choi, Ho-yeon Han

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PS1M064	New records of genus <i>Hyphasys</i> (Coleoptera: Chrysomelidae: Alticinae) from Korea <i>Mi Hyun Kang, Jong Eun Lee</i>
PS1M065	Comparative analysis of <i>Dolichoderus sibiricus</i> Emery (Hymenoptera : Formicidae) between Korea and Japan <i>Eui Jeong Hong, Min Jee Kim, Ki-gyoung Kim, Iksoo Kim, Byung-jin Kim</i>
PS1M066	Taxonomic revision of the leafhopper genus <i>Macropsis</i> Lewis from Korea (Homoptera: Cicadellidae) <i>Jin Hyung Kwon, Yong Jung Kwon</i>
PS1M067	A checklist of the collembolan species from Korea <i>Ji Sup Kwak, Sangkyu Kang, Kyung-Hwa Park</i>
PS1M068	A checklist of the Korean aquatic Collembola <i>Kyung-Hwa Park, Sangkyu Kang</i>
PS1M069	Nematode identification of imported agricultural crops in plant quarantine of Korea <i>Dong Woo Kim, Jae-yong Chun</i>
PS1M070	A new species and two new records of the family Neanuridae from Korea <i>Pil Ja Park, Kyung-Hwa Park</i>
PS1M071	DNA barcode of arthropod pests from pine mushroom from Korea and imported <i>Kwang-Su Lee, Heung-Sik Lee, Eun-Young Yoon, Cheon-Sun Ko</i>
PS1M072	Morphometrics of the final instar exuviae for four cicada species occurring in urban areas of central Korea <i>Hyung-Yun Lee, Seung-Yoon Oh, Yikwoon Jang</i>
PS1M073	A new species of the genus <i>Adaxophyes</i> (Lepidoptera: Tortricidae) on the sweet cherry imported from China under the plant quarantine in Korea <i>Deuk-Soo Choi, Young Mi Park, Jungyoun Ji, Bong-Kyu Byun</i>
PS1M074	Xyleborini Ambrosia Beetles of Melanesia: Taxonomic revision and monograph <i>Jiri Huler, Anthony L. Cognato</i>
PS1M075	Open the gates to the diversity of Protura <i>Carol Resch, Gerald Timelthaler, Nikolaus Urban Szucsich, Daniela Bartei, Guenther Pass</i>
PS1M076	Real-time tracing of AcMNPV infection to <i>Plutella xylostella</i> and the interaction between virus and parasitoid <i>Shu-Jen Tuan, Roger F. Hou, Suey-Sheng Kao</i>
PS1M077	New record for the Turkish house fly (Muscidae: Diptera) fauna <i>Cenk Onsay, Ferhat Altunsoy</i>
PS1M078	Determination of the phylogeny of some tabanidae (Diptera : Tabanidae) species using coi gene area <i>Ali Yavuz Kiliç, Sukran Yalcin</i>
PS1M079	Occurrence of grape rust mite, <i>Colepitrimerus vitis</i> , in Korea <i>Myoung Rae Cho, Jong Ho Lee, Taek Jun Kang, Hyung Hwan Kim, Seung Joan Ahn, Seung Wook Jeon, Hae Woong Park</i>
PS1M080	Taxonomic review of the genus <i>Zeiraphera</i> (Lepidoptera, Tortricidae) in Korea <i>Bong-Kyu Byun, Sat-Byeol Shin</i>
PS1M081	A preliminary checklist of the family Psychidae (Lepidoptera) in Korea <i>Bong-Kyu Byun, Seung-Jin Roh</i>
PS1M082	Historical review of Gracillariidae (Lepidoptera) in Korea <i>Bong-Kyu Byun, Young-Min Shin</i>
PS1M083	Efficacy of DNA barcodes to identify insect foreign material in foods: A case study using tenebrionids (Coleoptera: Tenebrionidae) <i>Seo Young Cha, Boo Hye Jung, Kyung In Suh, Yeon Jae Bae</i>
PS1M084	Development of species-specific primers for the molecular diagnosis of quarantine species in the genus <i>Tetranychus</i> and <i>Amphitetranychus</i> (Acari: Tetranychidae) <i>Tin Moo Khangs, Jav Kyeong Shim, Jong Ho Lee, Won Goo Lee, Kyeong Yeoll Lee</i>
PS1M085	Identification of biotopes and secondary endosymbionts of <i>Bemisia tabaci</i> in Korea and relationships with the occurrence of TYLCV disease <i>S. M. Hemayet Jahan, Jangsan Park, Hong-Soo Choi, Kiwan-Suk Lee, Chang-Suk Kim, Sukchan Lee, Kyeong-Yeoll Lee</i>
PS1M086	Molecular identification of spiraling whitefly <i>Aleurodicus dispersus</i> (Hemiptera: Aleyrodidae) and prevalence of secondary endosymbionts <i>S. M. Hemayet Jahan, Kiwan-Suk Lee, Sukchan Lee, Kyeong-Yeoll Lee</i>

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- PS1M087 Phylogenetic relationships of the insect order Odonata using COI, 16S rRNA, 28S rRNA and EF1- α Sequences
Min Jee Kim, Kwang Soo Jung, Ki-Gyoung Kim, Joang Wan Park, Ju Young Lee, Jumin Jun, Iksoo Kim
- PS1M088 Taxonomic revision of the genus *Chionea* Dalman (Diptera: Limoniidae) in Korea
Yong Jung Kwon, Sang Jae Suh
- PS1M089 A revision of the Aulacidae (Hymenoptera: Evanioidea) with two new species from Korea
Jin-Kyung Choi, Jong-Wook Lee
- PS1M090 Description of immature stages of *Tipula (Nippotipula) coquillettii* (Insecta, Diptera, Tipulidae) from Korea with notes its ecology
Jaeick Ja, Dongsoo Kang
- PS1M091 Molecular phylogeny and estimates of divergence times of Nymphalidae (Lepidoptera: Papilionoidea) based on concatenated mitochondrial and nuclear genes
Xinlong Wan, Min Jee Kim, Iksoo Kim
- PS1M092 Complete mitochondrial genome of the free-living earwig, *Challia fletcheri* (Dermaptera: Pygidicranidae) and phylogeny of Polyneoptera
Xinlong Wan, Min Jee Kim, Iksoo Kim
- PS1M093 A taxonomic study on the Genus *Linnaemya* Robineau-Desvoidy (Diptera, Tachinidae) in South Korea
Jang-Su Lim, N-Kwon Kim, Ho-Yeon Han
- PS1M094 Insect expedition of Vietnam (Butterflies)
Eun Young Choi, Jinyoung Park, Ik Je Choi, Yong Kyun Oh, Kyu Tek Park, Yang Seop Bae, Pham Thi Vuong, Jong Kyun Park
- PS1M095 Insect expedition of Vietnam (Beetles)
Ik Je Choi, Jinyoung Park, Eun Young Choi, Yong Kyun Oh, Kyu Tek Park, Yang Seop Bae, Pham Thi Vuong, Jong Kyun Park
- PS1M096 The insect fauna of Dokdo
Yong Kyun Oh, Jinyoung Park, Ik Je Choi, Eun Young Choi, Jong Kyun Park
- PS1M097 Newly recorded family Heliozelidae from Korea
Bang-Woo Lee, Shin-Young Park, Bang-Kyu Byun
- PS1M098 Confirmation of the fifth mitochondrial DNA lineage of the western honeybee from Sudan
Magbel Ahmed Abdalla El-Niweiri, Elmad Adam Omar, Robin Montz
- PS1M99 On caligonellid mites (Acari: Trombidiformes: Prostigmata) of Iran
Mohammad Bagheri, Mansoureh Abani Azad
- PS1M100 Mites of family Stigmaeidae (Acari: Trombidiformes) in Bonab orchards (Northwest Iran), with one new species of the genus *stigmaeus* Koch, 1836
Saeede Sadat Ghebresilvan, Mohammad Bagheri, Homed Gharbani
- PS1M101 Morphological classification of Subfamily Dacinae (Diptera: Tephritidae) in China
Qing-Ji, Jiahua Chen, Nannan Zhang
- PS1M102 On the *Anoplocheilus* Berlese, 1910 (Acari: Pseudocheyleidae) mites of Iran, with description of two new species
Elham zare, Mohammad Bagheri, Mansoureh Ahonlatzad
- PS1M103 New detection of entomopathogenic fungi from the Sudan
Abdalla Abdelrahim Satti, Nalema Eltayeb Garashi
- PS1M104 The physical therapy taxonomy
Hedaya Augustine Falayi, Charles Chioniso Uduogu
- PS1M105 An improved Greengenes taxonomy with explicit ranks for ecological and evolutionary analyses of bacteria and archaea
Hedaya Augustine Falayi, Charles Chioniso Uduogu
- PS1M106 Faunal notes of family Arctiidae (Lepidoptera, Noctuoidea) from Korea
Ulizjargal Bayarsaikhan, Youngdon Ju, Mu-Jie Qi, Xuan-Wi Le, Yang-Seop Bae
- PS1M107 Biotaxonomy of the family Cicadidae from Vietnam (Hemiptera: Auchenorrhyncha)
Thai Hong Pham, Yong Jung Kwon

Section 2 Physiology

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PS2M108	Different physiological roles of two dopamine receptors in isolated salivary glands of the blacklegged tick, <i>Ixodes scapularis</i> Denghui Kim, Ladislav Simo, Yoonseong Park
PS2M109	Cuticular lipids, water loss and desiccation resistance changes in <i>Z. indianus</i> and <i>D. melanogaster</i> Bhawna Kalra, Ravi Parkash
PS2M110	Molecular characterization of the cDNA encoding chitinase and its expression in oriental fruit fly <i>Bactrocera dorsalis</i> Wen-Jia Yang, Kang-Kang Xu, Wei Dou, Jin-Jun Wang
PS2M111	Molecular mechanisms of acaricides resistance in <i>Panonychus citri</i> (Acari: Tetranychidae) Tian-Ba Ding, Kun Zhang, Wei Dou, Jin-Jun Wang
PS2M112	A quantitative assay for juvenile hormone es and their precursors using fluorescent tags Crisaldejandra Rivera-Perez, Marcelo Nouzawa, Fernando Gabriel Noriega
PS2M113	Effects of thyroxine and potassium iodide on biological and physiological parameters of the mulberry silkworm, <i>Bombyx mori</i> L. (Bombycidae: Lepidoptera) Gadelhak Gaber Gadelhak, Ibrahim A. Rawash, Abir A. Gad, Mamdouh H. Idress
PS2M114	Effects of insulin as a peptide hormone and estradiol as a steroid one on physiological and biological parameters of the silkworm, <i>Bombyx mori</i> L. (Bombycidae: Lepidoptera) Gadelhak Gaber Gadelhak, Ibrahim A. Rawash, Abir A. Gad, Mamdouh H. Idress
PS2M115	Are microsatellite mutation rates higher in Orthopterans? Marie-Pierre Chapuis, Christophe Plomont, Rejane Streiff, Laurence Blondin, Gregory Sward
PS2M116	Phylogeography of the walnut twig beetle, <i>Pityophthorus juglandis</i> Blackman, the insect vector of Thousand Cankers Disease, in the United States Paul Rugman-Jones, Richard Stouthamer, Andrew D. Graves, Steven J. Seybold
PS2M117	Transcriptomic analysis of oocyte resorption after hydric stress in the German cockroach Maria Dolores Piulachs, Anibal de Horna, Alba Herranz, Xavier Belles
PS2M118	Kruppel homolog 1 and metamorphosis in the German cockroach. Expression, post-transcriptional regulation by microRNAs and biological role Jesus Lazano, Raul Montañez, Xavier Belles
PS2M119	The microRNA let-7 has a key role in insect vein patterning during wing metamorphosis Mercedes Rubio, Xavier Belles
PS2M120	Progress of subunit composition studies on nicotinic acetylcholine receptors from <i>Nilaparvata lugens</i> , an important rice insect pest Jian Li, Zewen Liu
PS2M121	Molecular characterization and functional study on chitin synthase genes from <i>Locusta migratoria</i> Xiaojian Liu, Kun Yan Zhu, Yaping Guo, Erbo Ma, Jianzhen Zhang
PS2M122	Identification and functional characterization of sex pheromone receptors in two sibling species, <i>Helicoverpa armigera</i> and <i>Helicoverpa assulta</i> Xiao-Jing Jiang, Dan-Dan Zhang, Ling-Qiao Huang, Chen-Zhu Wang
PS2M123	Molecular physiology of epithelial water transport in the lepidopteran hindgut Masaki Azuma, Tomoe Nagao, Mariya Maruyama
PS2M124	Structure activity relationship of a novel juvenile hormone, JHSB3 Tetsuro Shinada, Kanako Kaihara, Toyomi Kotaki, Hideharu Numata, Yasufumi Ohfun
PS2M125	Analysis of expression pattern of <i>Bombyx mori</i> gustatory receptors in the tissues and single cells of the taste organs Kaunya Shimomura, Ryoichi Sato
PS2M126	The role of the TOR pathway in the regulation of juvenile hormone synthesis in <i>Aedes aegypti</i> Mertxe Perez-Hedo, Crisaldejandra Rivera-Perez, Marcelo Nouzawa, Fernando Gabriel Noriega
PS2M127	The photoreponse of the brown-winged green stinkbug, <i>Plautia stali</i> : The daily activity rhythm and phototaxis Masami Shimoda, Terumi Yamaguchi, Takuya Uehara, Toyomi Kotaki
PS2M128	Mode of binding of juvenile hormone binding protein with ligands Takahiro Shiohara, Rintaro Suzuki, Zui Fujimoto, Wataru Tsuchiya, Mitsuru Momma, Akira Tase, Mitsuhiko Miyazawa, Takahiro Yamazaki

- PS2M129 Embryonic development of a diving beetle, *Hydaticus pacificus* (Coleoptera, Dytiscidae)
Kazuhiro Nakano, Yukimasa Kobayashi, Kei Hirosewa, Toshiro Inada
- PS2M130 Accumulation of antidiabetic iminosugars in silkworms reared on mulberry leaves
Masatoshi Haru, Shigeto Kamatsubara, Shunji Onose, Oki Higuchi, Teruo Miyasawa, Ayataka Nakagawa
- PS2M131 Digestive environment in the midgut of the xylophagous higher termite, *Nasutitermes takasagoensis*
Gaika Tokuda, Masaru Hata, Rihito P. Kumara, Seika Saitoh, Hiroaki Aoyama, Harufumi Watanabe
- PS2M132 Substrate vibrations mediate avoidance behavior via the femoral chordotonal organ in a cerambycid beetle, *Monochamus alternatus*
Takuma Takanashi, Midori Fukaya, Hiroshi Nishino
- PS2M133 Developmental expression profiles of sex-related genes and RNA interference of transformer in *Bactrocera dorsalis*
Chia-Hsin Li, Shu-Mei Dai, Cheng Chang
- PS2M134 Cannibalism modifies metabolic fingerprint and growth rate in *Helicoverpa armigera*
Luis Fredd Leonardo Vergara Montalvo
- PS2M135 Sex pheromone desaturase functioning in a primitive *Ostrinia* moth is cryptically conserved in congener's genomes
Takeshi Fujii, Yukio Ishikawa
- PS2M136 cDNA cloning and mRNA expression of heat shock proteins in *Oxya chinensis*
Yaping Guo, Yaping Zhang, Huimin Yang, Jianchen Zhang, Limin Ma
- PS2M137 Transcriptomic analysis of juvenile hormone biosynthetic organ in *Bombyx mori*
Toru Tagawa, Kazuo Mita, Yuki Nakamura, Toshiaki Natsuki, Hiroaki Noda, Tetsuro Shimoda
- PS2M138 cDNA cloning, thermal regulation and developmental expression of five heat shock protein genes in the western flower thrips, *Frankliniella occidentalis*
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- PS2M139 Functional genes for juvenile hormone degradation in insects
Takuya Tsubota, Hideki Sezutsu, Takahiro Shiozaki
- PS2M140 A new coelomic gregarine parasite from the ghost moth, *Thitarodes pui* (Lepidoptera: Hepialidae)
Xizuan Sun, Wenjing Wu, Guen Zhang
- PS2M141 Effects of temperature stress on tropical insects: A case study with the brown planthopper *Nilaparvata lugens* (Stål)
Jiranan Piyaphongkul, Jeremy Pritchard, Jeff Bate
- PS2M142 The boule gene is required for spermatogenesis in the haploid male of the sawfly, *Athalia rosae*
Kazuki Sekine, Masatsugu Hatakeyama
- PS2M143 Production of human beta defensin (DEFB) -1, 2, 3 and LL37 using baculovirus expression system
Mai Fukushima, Kazuhiro Iijima, Joe-Man Lee, Jun Yamashita, Hiroaki Mori, Masataka Furue, Gaku Tsuji, Takahiro Aisaka
- PS2M144 Genome-wide analysis for chemoreceptor genes in an insect-phoretic nematode, *Bursaphelenchus xylophilus*
Kazuko Tsuchihara, Takuma Takanashi, Morten Larsen, Takai Kikuchi
- PS2M145 Possible roles of cuticular lipids in mating behavior of *Papilio polytes* (Lepidoptera: Papilionidae)
Hisashi Omura, Taro Noguchi
- PS2M146 Effects of eye-removal on the photoperiodic response of the two-spotted spider mite, *Tetranychus urticae*
Yuichi Hori, Yoko Kawakami, Sakiko Shiga, Hideharu Numata, Shin G. Goto
- PS2M147 The occurrence of cell death mechanisms during follicular atresia induced by nutritional deprivation in *Dipatogaster maxima* (Hemiptera: Reduviidae), a vector of Chagas' disease
Silvia Andrea Aguirre, Patricia Pons, Beatriz Patricia Settembrini, Edilberto Rene Rubiolo, Lilian Etelevina Canavoso
- PS2M148 Functional analysis of β -ATP synthase as a lipophorin-binding protein in the midgut of *Panstrongylus megistus* (Hemiptera: Reduviidae)
Leonardo Luis Fruttero, Celia Regina Carlini, Edilberto Rene Rubiolo, Lilian Etelevina Canavoso
- PS2M149 Follicular atresia in the hematophagous *Dipatogaster maxima* (Hemiptera: Reduviidae): The involvement of acid phosphatase and cathepsin D
Jimena Leyrid, Silvia Andrea Aguirre, Leonardo Luis Fruttero, Celia Regina Carlini, Edilberto Rene Rubiolo, Lilian Etelevina Canavoso
- PS2M150 Analysis of the AA-NAT (aralkylamine N-acetyltransferase) expression in different tissues during development of the cotton leaf worm, *Spodoptera litoralis*
Piotr Bebas, Joanna Kotwica-Rolinska, Ewelina Witkowska
- PS2M151 A genome-wide survey for RNAi genes in rice brown planthopper, *Nilaparvata lugens* (Hemiptera: Delphacidae)
Haijun Xu, Xuechao Zhang, Chuan Zhang

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PS2M152	Transcriptomics of bacteriome and spermatheca of the bedbug <i>Cimex lectularius</i> Mineru Morioka, Ryuchi Koga, Takahiro Hosokawa, Noruo Nishio, Ryo Futahashi, Takema Fukatsu
PS2M153	Juvenile hormone titer and JH signaling gene expressions during differentiation of neotenic reproductives in the termite <i>Reticulitermes speratus</i> . Ryota Saiki, Kiyoto Maekawa
PS2M154	Molecular developmental mechanisms responsible for soldier-specific morphogenesis in the nasute termite <i>Nasutitermes takasagoensis</i> Kouhei Toga, Kiyoto Maekawa
PS2M155	Aim-then-shoot type of mechanisms involved in the jumping approach of potato moths to a sex pheromone source Shin Tejima, Tomohiro Ono, Masayuki Sakuma
PS2M156	Diversification of photoreceptors in the compound eye of the birdwing butterfly, <i>Troides aeacus formosanus</i> Pei-Ju Chen, En-Cheng Yang
PS2M157	Functional analysis of epigenetic regulation during embryogenesis of the cricket, <i>Gryllus bimaculatus</i> Yuji Matsuo, Tetsuya Bando, Taro Nakamura, Taro Mita, Sumihare Naji
PS2M158	Expansion of the odorant receptor family and reduction in the gustatory receptor family in the Hessian fly: - Adaptation to a stressful lifestyle? Martin N Andersson, Christer Löfdstedt, Hugh Robertson
PS2M159	Changes in the expression of cell cycle markers in moth <i>Spodoptera littoralis</i> tissue after exposure to the juvenile hormone analog- Fenoxycarb Agnieszka Suszczynska, Joanna Kotwica-Rolinska, Piotr Bebas, Marta Anna Polanska
PS2M160	RNA interference in the termite <i>Reticulitermes speratus</i> : A comparison of effect on silencing the hexamerin gene between single 21 nt siRNAs and a long dsRNA Shuji Itakura, Saho Tatsuzuma, Toshihiro Teranishi, Kaya Hashizume, Miyu Kaneda
PS2M161	Molecular cloning and analysis of a novel beta-1,3-glucan recognition protein from the ghost moth, <i>Thitarodes pui</i> (Lepidoptera, Hepialidae) Wenjing Wu, Zixuan Sun, Min Zhang, Chao Song, Guren Zhang
PS2M162	Influence of pymetrozine on feeding behaviors of four major rice sap-sucking insect pests using electrical penetration graphs Yueping He, Juefeng Zhang, Jiaming Chen, Li Chen, Jintang Shen, Yu Cheng Zhu
PS2M163	Positional cloning of the chocolate 2 (ch-2) gene controlling newly hatched larvae colour in silkworm, <i>Bombyx mori</i> Rui Zhang, Chengxiang Hou, Xinglin Me, Anjiang Tan, Anying Xu, Yongping Huang, Muwang Li
PS2M164	Water physiology of vitellogenic follicles in <i>Bombyx mori</i> Mariya Maruyama, Tomone Nagae, Masanori Azuma
PS2M165	Embryonic development of Zoraptera and its phylogenetic implication Yuta Mashimo, Ryuichiro Machida
PS2M166	Effect of entomopoxvirus infection on growth and metamorphosis of <i>Mythimna separata</i> larvae Hirotoshi Kinjo, Jun Takatsuka, Takahiro Shiozaki, Yosuhisa Kunimi, Madoka Nakai
PS2M167	Identification of peptidyl factors modulating feeding behavior of the silkworm, <i>Bombyx mori</i> Shinji Nagata, Hiromichi Nagasawa
PS2M168	Ovarian development in females of <i>Triatoma sordida</i> Stal (Hemiptera: Reduviidae: Triatominae) under fasting conditions Claudia Susana Rodríguez, Silvina Andrea Aguirre, Julieta Nattari, Lilian Etelvina Canavoso, Liliana Beatriz Cracco
PS2M169	Effect of the juvenile hormone on resistance against pathogen differs between sexes Markus J. Rantala
PS2M170	Biological activities of juvenile hormone skipped bisepoxide (JHSB3) in the stink bug, <i>Plautia stali</i> Toyami Kotaki, Tetsuro Shinada, Kanako Kishida, Yasufumi Ohfune, Hidehiko Numata
PS2M171	Study on microbiota diversity and cellulolytic bacterial community in the hindgut of <i>Holotrichia parallela</i> larvae (Coleoptera: Scarabaeidae) Shengwei Huang, Hongyu Zhang
PS2M172	Molecular diversity and function on host of the intestine bacteria of <i>Bactrocera dorsalis</i> adults Hongxiu Wang, Hongyu Zhang

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PS2M173	Comparative analysis of major transcripts from the salivary glands of two insect-feeding hemipteran bugs, <i>Agriosphodrus dohrni</i> and <i>Orius strigicollis</i> Nana Okada, Hiroto Kato, Yoko Takematsu, Jun Kobayashi
PS2M174	In vitro assay using cultured insect cells expressing mosquito acetylcholinesterase mutants predicts development of resistance to novel insecticides by single point mutations at a target amino acid Yu Mukai, Hiroaki Kawamoto, Daigo Kodama, Makoto Itakura, Jun Kobayashi
PS2M175	The circatidal rhythm of the mangrove cricket persists after removal of the optic lobe Hiroki Takekata, Sotiko Shiga, Hideharu Numata
PS2M176	Glutathione S-transferase levels in bed bugs in Thailand Sonthaya Thawatsitup, Nit Malinual, Apiwat Sawatsin, Usavadee Thavara, Manree Watanabe
PS2M177	Role of yeast-like endosymbionts (YLS) of brown planthopper, <i>Nilaparvata lugens</i> (Stål) in the development of resistance to imidacloprid, neonicotinoid insecticide Juefeng Zhang, Na Li, Yeping He, Jianming Chen
PS2M178	Involvement of a circadian system in the circannual rhythm in the varied carpet beetle <i>Anthrenus verbasci</i> Yosuke Miyazaki, Tomoyoshi Nishimura, Tomoya Matsuno, Hideharu Numata
PS2M179	GST underlying the rhythmic resistance against permethrin in the German cockroach Yu-Hsien Lin, Jia-Hsin Huang, Yun-Liu, Hwei-Jing Lee
PS2M180	DNA methylation during the caste determination in the European honeybees, <i>Apis mellifera</i> Hironori Sakamoto, Miho Suzuki, Shinnosuke Ishii, Tetsuhiko Sasaki
PS2M181	Identification of sex pheromone components in <i>Trissolcus brochymenae</i> females Gianandrea Salerno, Gianfranco Anfora, Alessio Iacovone, Francesco Fani, Eric Conti
PS2M182	The neuropeptide allatostatin A and its receptor DAR-2 regulate metabolism in <i>Drosophila</i> Julie L. Hentze, Mikael A. Carlsson, Ole Andersen, Dick R. Nussel, Kim F. Rensitz
PS2M183	Investigation of lectins as competitors of virus in aphids and potentiality in viral disease transmission Emile Bosque, Jeremy Haste, Eric Houburger, Sophie Vandermoten, Frederic Francis
PS2M184	Effect of reduced water supply on aphid physiology: A proteomic approach on peach-aphid interaction Jaime A. Verdugo, Jean-Philippe Lacroix, Marie-Helene Saugy, Sophie Vandermoten, Ramirez C. Claudio, Frederic Francis
PS2M185	Termites artificially-fed on unusual diet and resulting enzymatic switches Julien Bauwens, Cedric Tanayre, Christel Matteoni, Chaterine Brasseur, Jacqueline Destain, Micheline Vandenbal, Daniel Portetxau, Philippe Thonart, Edouard De Pauw, Sophie Vandermoten, Eric Houburger, Frederic Francis
PS2M186	Cloning and expression of a membrane form guanylyl cyclase, BdmGC-2, in the oriental fruit fly, <i>Bactrocera dorsalis</i> Jen-Dau Liu, Ai-Cheng Chang, Huey-Bing Yang, Kuang-Hui Lu
PS2M187	Hemolymph melanization in the silkworm <i>Bombyx mori</i> requires the formation of a high molecular mass complex that metabolizes tyrosine Kevin D. Clark, Michael R. Strand
PS2M188	Effects of temperature and photoperiod on hypermetamorphosis in the been blister beetle, <i>Epicauta gorhami</i> Yoshinori Shintani, Misato Terao, Yuzuru Hirose
PS2M189	Larval development and diapause in the ramie longicorn beetle, <i>Paraglenea fortunei</i> Ryohei Miyahara, Jun-ya Tajima, Yoshinori Shintani
PS2M190	How are odorant binding proteins involved in olfaction of <i>Tribolium castaneum</i> ? Karthi Murugan, Stefan Dippel, Sergio Angel, Paolo Pelosi, Jochen Schachtner, Ernst Wimmer, Stefan Schütz
PS2M191	The effect of insect-virus interactions on the wheat metabolome under increasing atmospheric carbon dioxide Simone Vasilakidis, Jo Luck, Kim Plummer, Kevin Steven Powell, Simone J. Rochford
PS2M192	Juvenile hormone biosynthetic organs in the final larval instar of the red flour beetle <i>Tribolium castaneum</i> Fumika Ishii, Ken Miura, Toshihiko Tanaka, Cheiko Marukuchi
PS2M193	Insect hormones regulate the expression of diapause hormone receptor gene of the silkworm (<i>Bombyx mori</i>) In Vitro Xingjia Shen, Ligang Wang, Shunming Tang, Shengqiang Wang, Qiaoling Zhao
PS2M194	Nutrition and radiation influence protein expression on oriental fruit fly pupae Chiew Ling Chang, Scott Geth, Thomas A. Coudron, Cynthia L. Goodwin, David Stanley
PS2M195	Effect of plant secondary compounds on detoxification enzymes and oxidoreductases of cereal aphid Tingting Feng, Guilan Pu, Xiaojin Sun, Qingxian Cai

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PS2M196	Induction of gene silencing in cultured insect cells by piggyBac transposon Jun Kobayashi, Hiroshi Mitsuoka
PS2M197	Electroantennogram and field responses of the rice leaf folder, <i>Cnaphalocrocis medinalis</i> , to sex attractant candidates in Korea Jum Rae Cho, Jin Kyo Jung, Kyung San Choi, Hong Hyun Park, Ba Yoon Seo, Ki Hong Yum
PS2M198	Suppression of pheromone biosynthesis via RNA interference in <i>Plutella xylostella</i> Dae-Weon Lee
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PS2M203	Effect of <i>Hydropsyche kozhantschikovi</i> extracts on oxidative cell and dna damage Young Mi Park, Joe Hwan Lim, Jong Eun Lee, Eul Wan Seo
PS2M204	A microRNA-based screen for novel feeding-related target genes Minjung Shin
PS2M205	Female sex pheromone components of the box tree pyralid, <i>Glyphodes perspectalis</i> in Korea: Field test and development of film type formulation Il-Kwon Park, Junheon Kim, Sang-Chul Shin
PS2M206	A miRNA-based screen for novel genes involved in olfactory axon targeting Shreelatha Shenay
PS2M207	Why a membrane-anchored chitinase (CHT7) in <i>Tribolium</i> ? Mi Young Noh, Subbasatnam Muthukrishnan, Karl J. Kramer, Richard W. Beeman, Yasuyuki Arakane
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PS2M209	Feeding behaviors of <i>Cacopsylla pyricola</i> (Homoptera: Psyllidae) and their changing feeding behaviors to insecticides Min Woo Park, Shin Hyuk Jo, Sae Hee Kim, Hye Ri Kwon, Mi Ja Seo, Yang Man Yu, Young Nam Yoon
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PS2M211	Biochemical characterization of cold-adapted glycosyl hydrolases from the antarctic springtail acquired from <i>Bombus mori</i> Sun Mee Hong, Ho Sun Sung, Mee-Hye Kang, Youn-Ho Lee, Jung-Hee Woo, Nyum-Ho Park, Choang-Gon Kim
PS2M212	Molecular characterization and apoptotic mechanisms of psacothaeasin, a novel knottin-type antimicrobial peptide, from <i>Psacothaea hilaris</i> Jae-Sam Hwang, Bomi Hwang, Junyeoung Lee, Dong Gun Lee, Eun-Young Yum, In-Woo Kim, Sung-Hae Nam, Seong-Ryul Kim, Mi-Young Ahn
PS2M213	The effects of paralyzation by <i>Bracon hebetor</i> Say (Hymenoptera: Braconidae) on hemolymph enzymes and proteins in larvae <i>Ephestia kuehniella</i> Zeller (Lepidoptera: Pyralidae) Ayelin Suzu Tumbellek, Sevgi Bakir, Ebru Soatci, Gulser Toprak, Ulker Canpolat, Tayfun Kaya
PS2M214	Developing a molecular diagnosis key for five common cockroach species Mohammad Ali Oshaghi, S.S.Hashemi-Aghdam, Fatemeh Mohtarami
PS2M215	TYLCV acquisition influenced the attraction of whiteflies <i>Bemisia tabaci</i> to the green light emitting diodes (LEDs) S. M. Hemayet Jahan, Kwan-Suk Lee, Sukchan Lee, Kyeong-Yeol Lee
PS2M216	Up-regulation of temperature susceptibility in <i>Bemisia tabaci</i> upon acquisition of tomato yellow leaf curl virus (TYLCV) Joseph Carlo A. Pusag, S. M. Hemayet Jahan, Kwan-Suk Lee, Sukchan Lee, Kyeong-Yeol Lee

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- PS2M217 The induction and termination of larval diapause in *Lycaena dispar*
Seung-hyun Kim, Namjung Kim, Seung-Jin Hong, Young-Bo Lee, Mae-Chul Park, Nam-Ho Yi
- PS2M218 Cloning and sequence analysis of a GH10 Endo- β -1, 4-xylanase gene of streptomyces mexicanus DY31, a bacterium in the gut of a mole cricket, *Gryllotalpa orientalis*
Do Young Kim, Hye Jeong Kim, Han-Kyung Cho, Yi Junn Kim, Dong-Ho Shin, Kwang-Hye Son, Ho-Tsang Park
- PS2M219 Indoor-rearing system of the emma field cricket, *Teleogryllus emma*
Namjung Kim, Seung-hyun Kim, Seung-Jin Hong, Young-Bo Lee, Seok-Jo Whang, Mae-Chul Park
- PS2M220 Purification and characterization of a β -1,4-mannanase from an intestinal bacterium of *Moehotupa diphyis*, *Paenibacillus* sp. Strain HJ-8
Hye Jeong Kim, Do Young Kim, Han-Young Cho, Sung Young Jung, Yiloon Kim, Dong-Ho Shin, Kwang-Hye Son, Ho-Tsang Park
- PS2M221 Development of a mycoinsecticide formulation with *Paecilomyces lilacinus* HY-4 for the control of *Tetranychus urticae*
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- PS2M222 Increase of 30K protein in identified motoneurons by hemolymph results in inhibition of programmed cell death in silkworm, *Bombyx mori* (Lepidoptera, Bombycidae)
Hwa Young Song, Mi Young Kim, Bong Hye Lee
- PS2M223 Transcriptomic study of *Tenebrio molitor* larva that was treated with acholeplasma lysate injection
Jieun Jeong, Se Wan Kang, Hye-Ju Hwang, Sung-Hwa Chae, Sang-Haeng Choi, Hong-Seung Park, Dae-Hyun Song, Yeon-Soo Nam, Yong Seok Lee
- PS2M224 Genome sequencing and analysis of *Pieris rapae granulovirus*
Yang Seok Lee, Se Wan Kang, Bhindri Bhuvan Patnaik, Seung-Han Cho, Dong Hyun Kim, Young-Hyeon Kim, Gwang-Hye Son, Han-Chan Jeong, Ho Beom Lee, Chuan-Ji Zhang, Jo Seok Bang, Yoon-woo Han
- PS2M225 CSP and takeover genes modulate the aggregation behavior in locust
Wei Guo
- PS2M226 Roles of a chitinase gene (*LmChT10*) in *Locusta migratoria* development
Daqi Li, Kun-Yun Zhu, Sheng Li, Enbo Ma, Yi Sun, Jianzhen Zhang
- PS2M227 Endocrine regulation of the peripheral clock gene expression in an insect model
Adam Bajgar, David Dolezel, Marcela Buricova, Magdalena Hadkova
- PS2M228 Common and distinct juvenile hormone signaling pathways regulate metamorphosis and reproduction in hemimetabolous insects
Adam Bajgar, Vlastimil Smykal, Jan Provaznik, Marcela Buricova, David Dolezel, Marek Jindra, Magdalena Hadkova
- PS2M229 A new coelomic gregarine parasite from the ghost moth, *Thitarodes pui* (Lepidoptera: Hepialidae)
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- PS2M230 Proteomic analysis of *Sesamia nonagrioides* brain in diapausing and non-diapausing developed larvae
Meritxell Perez-Medro, Isabel Sanchez Lopez, Miroslava Maria Elizagorri
- PS2M231 Molecular cloning and analysis of a novel beta-1,3-glucan recognition protein from the ghost moth, *Thitarodes pui* (Lepidoptera, Hepialidae)
Wenjing Wu, Zixuan Sun, Min Zhang, Chao Sang, Guren Zhang
- PS2M232 The cabbage moth modulates the adult eclosion time in response to the amplitude of temperature cycle
Kazuhito Tanaka, Yasuhiko Watanabe
- PS2M233 Effects of knockdown of the adipokinetic hormone receptor on nutritional levels and feeding frequency in the two-spotted cricket *Gryllus bimaculatus*
Takahiro Konuma, Nobukatsu Morooka, Hiromichi Nagasawa, Shuji Nagata
- PS2M234 Identification and characterization of α -amylase in the gut of Red Palm Weevil, *Rhynchophorus ferrugineus* (Olivier, 1790) (Coleoptera: Curculionidae)
Ali R. Bandal, Ali Darvishzadeh
- PS2M235 Induced transcription profile of cecropin and defensin gene families in vector mosquito, *Armigeres subalbatus*
Hau-yau Tseng, Wen-Chi Chang, Chun-Hsen Lin, Zhu Chun Tu
- PS2M236 Temperature dependent changes of chemical components in overwintering and non-overwintering predatory ladybird *Hippodamia variegata* (Coleoptera: Coccinellidae)
Nayereh Hamed, Saeid Mohammadi, Mehdi Borzagar

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PS2M237	The effect of four different host plants on digestive proteolytic and amylolytic activity of the cotton bollworm, <i>Helicoverpa armigera</i> (Hubner) (Lepidoptera : Noctuidae) Neda Fallahnejad Mojarad, Yaghoob Fathipour, Karim Kamali, Bahram Naseri
PS2M238	Digestive proteolytic and amylolytic activity of <i>Helicoverpa armigera</i> (Lepidoptera : Noctuidae) in response to time, different instars of larvae and cultivar Neda Fallahnejad Mojarad, Yaghoob Fathipour, Karim Kamali, Bahram Naseri, Azadeh Jorjahi
PS2M239	Effect of different host plants on some biochemical characteristics of digestive proteases of <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae) Neda Fallahnejad Mojarad, Yaghoob Fathipour, Karim Kamali, Bahram Naseri
PS2M240	Identification and characterization of α -amylase in the Iranian population of the Rose Aphid, <i>Macrosiphum rosae</i> (Linnaeus, 1758) (Hemiptera: Aphididae) Ali Darvishzadeh, Ali Moslemi, Ali R. Bandani
PS2M241	Evaluation of proteolytic activity in <i>Rhynchophorus ferrugineus</i> (Coleoptera: Curculionidae) (Olivier, 1790) and efficiency of synthetic inhibitors in electrophoresis Ali Darvishzadeh, Ali R. Bandani
PS2M242	Characterization of α -amylase in the Italian Locust, <i>Calliptamus italicus</i> (Linnaeus 1758), (Orthoptera: Acrididae) Ali Darvishzadeh, Ali Moslemi, Moslemi, Ali R. Bandani
PS2M243	Identification and characterization of α -amylase in citrus swallowtail, <i>Papilio demoleus</i> (Linnaeus 1758), (Lepidoptera: Papilionidae) Ali Darvishzadeh, S. Qasem Mousavi, Ali R. Bandani
PS2M244	Ecological significance of cooling rates improving the cold hardening of overwintering <i>Hippodamia variegata</i> (Coleoptera: Coccinellidae) Nayereh Hamedli, Saeid Mahamati-pour

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PS3M245	The architecture of Sunggau in Bangka Island, Indonesia - An artificial wild honey bee nest <i>Kila Nurjajaya</i>
PS3M246	Behavioural and physiological differences between the Mediterranean fruit fly, <i>Ceratitis capitata</i> (Wiedemann) and the Natal fruit fly, <i>C. rosa</i> Karsch and how it relates to their distribution <i>Marelize De Villiers, Vaughan Hotelling</i>
PS3M247	Physical and chemical stimuli that affects <i>Dactylopius opuntiae</i> anchorage <i>Adriana Perez-Ramirez, Federico Castrejón-Ayala, Alfredo Jimenez-Perez</i>
PS3M248	Effect of weight and age at mating on <i>Copitarsia decolora</i> reproductive potential <i>Maria Magdalena Collado-Galindo, Patricia Villa-Ayala, Georgina Sanchez-Rivera, Alfredo Jimenez-Perez</i>
PS3M249	Impact of leaf-miner insects on the primary metabolism of their host-plant: Manipulating from the inside <i>Melanie Body, Isabelle Mazerie, Jerome Casas, Jean-Philippe Christidis, Vincent Burgin, Jean-Paul Morge, David Giron</i>
PS3M250	Cooperation between <i>Wolbachia</i> and leaf-miners to produce "green-islands": Insights into the plant-insect-bacteria interaction <i>Wilfried Kaiser, Elisabeth Huguet, Sylvain Guyot, Franck Desclaux, Flavence Gutzwiller, Carlos Lopez Verrillando, Jerome Casas, David Giron</i>
PS3M251	The role of <i>Ateocera raptorialis</i> (Hemiptera: Pentatomidae) in the succession of fungal populations within pecan nut (<i>Carya illinoensis</i>) orchards in South Africa <i>Vaughn Richmond Swart, Jaco Smitman, Gert Johannes Maron</i>
PS3M252	Greenhouse pests activity patterns <i>Jan Piet Kaas</i>
PS3M253	Effect of different environmental conditions on plant defenses mediating interactions between the Mountain Pine Beetle and its host pine trees <i>Inka Lusebrink, Maya Evenden, Nader Erbilgin</i>
PS3M254	Comparisons of the parasitism by four indigenous <i>Trichogramma</i> species on the rice striped stem borer, <i>Chilo suppressalis</i> at different temperature and relative humidity regimes <i>Xiaohua Yuan, Changchun Ruan, Liansheng Zeng</i>
PS3M255	Nutritional variations affect the larval behaviour of the spruce budworm (<i>Choristoneura fumiferana</i> (Clem.)). <i>Roberto Quezada Garcia, Damagh Ertis, Emma Displand, Eric Bouce</i>
PS3M256	Allopatric distribution and diversification without changing diet in a bryophyte-feeding basal moth lineage (Lepidoptera: Micropterigidae) <i>Yume Imada, Atsushi Kowakita, Makoto Kato</i>
PS3M257	Determination of the maternal effect of <i>Aspidiotus nerii</i> Bouche (Hemiptera: Diaspididae) by using life table <i>Ismail Karaca, Senay Ozger, Aline Bayindir, Mehmet Sedat Sarinc</i>
PS3M258	Life Tables Variability: With a mathematical discussion of the application of the jackknife technique to the estimation of the variance of net reproductive rate <i>Yu-Bing Joyce Huang, Hsin Chi</i>
PS3M259	Effect of host plant on feeding, biological and morphological parameters of <i>Liriomyza huidobrensis</i> Blanchard (Diptera: Agromyzidae) <i>Caroline A. Roth, Adenán Chabi-Olaye, Kamil K.M. Flaboe, Arop L. Deng, Issyah M. Tobo</i>
PS3M260	Population dynamics and 'outbreaks' of Diamondback moth, <i>Plutella xylostella</i> , in Guangdong province, China: Climate or the failure of management? <i>Zhenyu Li, Myron Philip Zalucki, Xia Feng</i>
PS3M261	Effects of cold storage on survival, predation and reproduction of pre-wintering <i>Harmonia axyridis</i> (Pall) <i>Changchun Ruan, Wenmei Du, Liansheng Zeng</i>
PS3M262	Transmission rate of rice stripe virus by <i>Laodelphax striatellus</i> from different geographical population <i>Fang Liu, Qing qing Gui</i>
PS3M263	Effect of temperature on the developmental period, survival and adult longevity of <i>Sesamia nonagrioides</i> (Lepidoptera: Noctuidae) <i>Stefanos S. Andreadis, Nikolaos K. Kargelaris, Panagiotis A. Hlopaoules, Marilisa Livanoukaki, Spathis</i>

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PS3M265	Transplanting large potted trees: A factor involved in the range expansion of the pine processionary moth, <i>Thaumetopaea pityocampa</i> Christelle Robinet, Charles-Edouard Imbert, Jerome Rousselet, Daniel Sauvard, Jacques Garcia, Francis Goussard, Alain Roques
PS3M266	Predator's non-consumptive effects on herbivores influence herbivore-induced plant responses Shigeaki Hirano, Shunsuke Utsunomiya, Takayuki Ohgushi
PS3M267	Inferring the difference of moth fauna composition in subtropical alpine forests - A case study in Hohuanshan Mountain Range, Taiwan Wei-Chun Chang, Hsu-hong Lin, Li-chen Shih, Shipher Wu
PS3M268	Effect of genital spines on male fitness in the West Indian sweet potato weevil Norikuni Kumano, Takashi Kuriwada, Keiko Shimomoto, Maruki Tatsuta
PS3M269	Boldness, mate choice and bacterial resistance in the field cricket <i>Gryllus integer</i> Raine Kortet, Petri Toivonen, Anssi Vainikka, Jouni Laakso
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PS3M271	Characterization of an atypical tree-aphid interaction model: <i>Phloeomyzus passerinii</i> (Signoret) (Homoptera: Aphididae) on the stem of different poplar genotypes Sophie Poiteau, Arnaud Ameline, Aurelien Salle, Françoise Lawrans, Stephanie Bankhead-Dronnet, Francois Lecomte
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PS3M273	Foraging decisions of insect parasitoids under the threats of intraguild predation Yoshitaka Nakashima
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PS3M275	Visual and chemical cues attracting rednecked cane borer, <i>Agrilus ruficollis</i> , to primocanes Soa-Hoon Samuel Kim, Clinton E. Trammel, Barbara Lewis, Donn T. Johnson
PS3M276	Oviposition strategy of the winter cherry bug in response to egg parasitism risk Yuji Nakajima, Tsuyoshi Wakamura, Kenji Fujisaki
PS3M277	Differential responses to predator cues between two mosquito species breeding in different habitats Shin-ya Ohba
PS3M278	The distribution and diversity of butterfly (Lepidoptera) assemblages in King Saba Dalindyebo (KSD) Local Municipality, Eastern Cape, South Africa Augustine Suh Niba, Derrick Nomah Forbanka
PS3M279	Collective decision making during house hunting in the small-colony ant <i>Myrmecina nipponica</i> Adam L. Cronin
PS3M280	Host plant preference for nesting by the Japanese foliage spider, <i>Cheiracanthium japonicum</i> (Araneae: Miturgidae) Yutaka Hironaka, Hiroshi Abe
PS3M281	Effects of plants growth promoting rhizobacteria (PGPR) and fertilization on three Brassicaceae species and growth performance of <i>Spodoptera litura</i> Yuwatida Siripantant, Shaw-Yhi Hwang
PS3M282	Consequence of bio-diversity of aquatic organisms in paddy fields: Influence of two aquatic organisms on rice plant growth Takayuki Tsukamoto, Dina Wahyu Trisnawati, Satoru Sato, Mironori Yasuda
PS3M283	Symbiotic gut protists are not harbored in termite queens and kings with mature reproductive organs Keisuke Shimada, Osamu Kitade, Kiyoto Maekawa
PS3M284	Structure and function of the large pronotal horn of the sand-living anthicid beetle <i>Mecynotarsus tenuipes</i> Kosai Hashimoto, Fumio Hayashi

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- PS3M285** Effect of global warming on occurrence of the maize orange leathopper, *Cicadulina bipunctata*
Keiichi Matsukura, Kazuhiro Yoshida, Masaya Matsumura
- PS3M286** Males kill their mating partner in a mass-reared population of the sweetpotato weevil *Cylas formicarius*
Keiko Shimomoto, Norikuni Kumano, Takashi Kurakawa, Tadashi Takizawa, Atsuya Toyotsuki, Dai Hamaguchi
- PS3M287** Seasonal monitoring of the incidence and flight activity of the groundnut leaf miner (*Approaerema* spp.) in 5 sites in South Africa
Mekhasi Buthelez, Godfrey Zhorre, Desmond Contang
- PS3M288** Predicting the effect of climate change on community structure and function: an assessment using grassland thrips
Matthew Blais, David Warton, Heloise Gibb, Nigel Andrew
- PS3M289** Adaptive significance of harning behavior in male scoliid wasps (Hymenoptera: Scoliidae)
Saichiro Tami, Takatoshi Ueno
- PS3M290** Plant host differences in the genus *Cossus* (Cossidae): insights from mechanical tests and molecular phylogeny
Luis Fredi Leonardo Vergara Montalvo, Craig Everroad, Guadalupe Androca, Jun Kikuchi, Hiroshi Makihara
- PS3M291** Elucidating factors by which *Orius* spp. is attracted and arrested to Okra
Hajun Rim, Masayoshi Uefune, Rika Osoawa, Akio Nakano, Jungs Takabayashi
- PS3M292** Historical fires on grasslands in central Japan and its causation to distributions of grassland species of bumblebees and endangered butterflies
Takeshi Suka, Hiroyuki Tanaka, Atsushi Ushimaru, Kei Uchiwa, Takakazu Yumoto
- PS3M293** The mating system using volatile and substrate-born sex pheromones in a polyphagous solitary parasitoid wasp, *Itoplectis naranyae*
Hiroki Itadani, Takatoshi Ueno
- PS3M294** Effect of bush burning on the egg parasitoid, *Trichogramma chilonis* Ishii (Hymenoptera: Trichogrammatidae) of the endangered butterfly, *Shijimiaeoides divinus* barine (Leech) (Lepidoptera: Lycaenidae)
Keiko Kado, Hiroshi Nakamura
- PS3M295** Physiological response of strawberry (*Fragaria x ananassa* Duch. cv. 'Yunia Smuds') to spider mite (*Tetranychus atlanticus* McGregor, 1941) feeding
Alexey Baklan, Alena Kvitka, Sergey Yakovlevich Popov, Mikhail Solovov, Alexander Rikhsanov
- PS3M296** Changes of the land use and decline of the endangered butterfly, *Shijimiaeoides divinus* barine in Azumino, Japan
Hiroshi Nakamura, Keiko Kado, Takeshi Suka
- PS3M297** Effect of grazing intensity on species diversity of butterfly communities
Kohei Muratsu, Asana Matsuo
- PS3M298** Effects of jasmonate and salicylate induced defense in wheat on grain aphid, *Sitobion avenae* (Hemiptera: Aphididae)
Hehe Cao, Tong-Xian Liu
- PS3M299** Phenotypic and genetic differences among exotic herb *Solidago altissima*: How do they respond to reassociation with the exotic insects?
Yuzu Sakata, Takayuki Ohgushi, Yoshino Ando, Yuji Inagi
- PS3M300** A survey on oviposition behavior of *Trichogramma brassicae*
Hossein Kishani Farahani, Ahmad Ashoun, Martin Shapiro, Seyed Hossein Gokhariz, Akbar Golshani, Yasaman Maghaddasi
- PS3M301** Olfactory learning and memory duration of *Wolbachia* infected *Trichogramma brassicae*
Hossein Kishani Farahani, Ahmad Ashoun, Martin Shapiro, Seyed Hossein Gokhariz, Akbar Golshani, Yasaman Maghaddasi
- PS3M302** Endophytic bacteria associated to sharpshooters, insect vector of *Xylella fastidiosa*: Potential of symbiotic control
Paulo Teixeira Lacerda, Claudia Santos Gal, Antonio Sergio Ferreira Filho, Wellington Luiz Araújo, Maria Carolina Queiroz, Andrea Cristina Bogas, Priscilla Barros Rosseto, João Lucio Azevedo
- PS3M303** Take-off behavior of *Cnaphalocrocis medinalis* (Guenee) (Lepidoptera: Pyralidae) in field conditions and its relation to temperature, illuminance and wind speed
Fan Yang, Xiaoli Zhang, Booping Zhou
- PS3M304** Evaluation of mericid diets for rearing *Scyphophorus accupunctatus* (Coleoptera: Curculionidae)
Ma. Elena Valdes-Estrada, Lucía Aldana Linares, Alfredo Jimenez-Perez, Maria Guadalupe Ortega, Mari C. Hernández-Riley
- PS3M305** Seed predation process of *Megostigmus transvaalensis* (Torymidae) in *Schinus terebinthifolius* (Anacardiaceae) in Brazil
Sergio Jansen, Simone Padua Teixeira, Rodrigo A. Santschi Pereira
- PS3M306** Different uses of plant semiochemicals in host location strategies of two "microtype" parasitoid flies
Ryoko Tabeta Ishiki, Giang Thi Thu Ho, Eric Whynberg, Yasuhiro Kishino, Jun Tsubota, Satoshi Nishimura

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PS3M308	The effect of larval density on development of the coconut hispine beetle, <i>Brontispa longissima</i> (Gestro) (Coleoptera: Chrysomelidae) Mika Murata, Dang Thi Dung, Shun-ichiro Takano, Ryoko Tabata Ichiki, Satoshi Nakamura
PS3M309	Factors associated with damage to blueberry fruits by <i>Drosophila suzukii</i> Hirotsuki Kinjo, Yoruhiisa Kurimi, Takuya Ban, Madoka Nakai
PS3M310	Aster Yellows phytoplasma strain Witches Broom alters plant development to manipulate plant-insect interactions Allison Marie MacLean, Heather Kingdom, Akiko Sugio, Saskia Hogenhout
PS3M311	Differential pesticide susceptibility explains replacement of <i>Neoseiulus womersleyi</i> by <i>N. californicus</i> in Japanese pear orchards Masumi Hanawa, Kazuki Goto, Tetsuo Gotoh
PS3M312	Stage-specific defensive strategies of three mantid species, <i>Tenodera aridifolia</i> , <i>Hierodula patellifera</i> , and <i>Statilia maculata</i> , against a natural enemy Hiroshi Watanabe, Eizi Yano
PS3M313	Phytoseiid mite species composition in Japanese peach orchards estimated using quantitative sequencing David Wahl, Shoji Sanoda, Yoko Kohara, Suqin Genie
PS3M314	Sexual behavior, chemical communication, and reproductive isolation in <i>Proeulia auraria</i> Baker (Lepidoptera: Tortricidae) Tomaslav Cenkovic, Yuri Cuevas, Luis Reyes-Garcia, Jan Bergmann, Carolina Balvesteros
PS3M315	Flexible food-searching in the parasitic wasp, <i>Cotesia vestalis</i> Saichi Kugimiya, Masayoshi Uefune, Takeshi Shimoda, Junji Takabayashi
PS3M316	Effect of alternating temperature on life table parameters and predation capacity of phytoseiid spider mite predators Dominiek Vangansbeke, Lien De Schijver, Thomas Spranghers, Bruno Gobin, Luc Tirry, Patrick De Clercq
PS3M317	Development, survival and reproduction of <i>Harmonia axyridis</i> (Pallas) (Coleoptera: Coccinellidae) after its eggs exposure to high temperature stress Shiye Zhang, Zhu Cao, Tang-Xiao Liu, Fan Zhang
PS3M318	Climate warming increased fitness of the cicada, <i>Cryptotympana facialis</i> , by synchronizing its hatching time with the rainy season Minoru Moriama, Hideharu Numata
PS3M319	Macrodiplasis (Diptera: Cecidomyiidae) in Japan and Korea together with information on their ecological traits and gall induction on <i>Quercus</i> (Fagaceae) Wanggyu Kim, Kiyoko Matsunaga, Naohisa Gyotoku, Tsuneo Minami, Keumari Matsuo, Junichi Yukawa
PS3M320	Effects of barley chromosome addition to wheat on feeding preference and nymphal development of the migratory locust <i>Locusta migratoria</i> (Orthoptera: Acrididae) Makoto Takeda, Shunji Suematsu, Seiji Tanaka, Kanako Kawano, Yasunari Ogihara
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- PS3M327 Maternal oviposition site selection in the stinkbug *Urostylis westwoodi* (Hemiptera: Urostylidae).
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- PS3M328 Phototactic behavior and visual function between nymphs and alates of a termite, *Zootermopsis nevadensis* (Hagen).
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- PS3M329 Overview of pheromone diversity in hawk moths based on receptor and behavioral responses
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- PS3M332 Does host plant regrowth mediate coexistence of herbivorous insects?
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- PS3M335 Pupae of a rhinoceros beetle produce deceptive vibratory signals to protect themselves against conspecific larvae
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- PS3M373 A climatic variables-based prediction on the distribution of an alien invasive hornet *Vespa velutina nigrithorax* in Korean Peninsula
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- PS3M377 Genetic diversity of the long-horn beetle, *Callipogon relictus* (Coleoptera: Cerambycidae) in North Korean and Chinese populations
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- PS3M393 A study on research history and distribution of *Drosophila suzukii*
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PS3M399	Population genetic structure of the soybean aphid from Asia and North America based on microsatellites Hyejoang Kim, Minyoung Kim, Kim A. Hoelmer, Seunghwan Lee
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- PS3M417 Effect of temperature on development of *Elycysma westwoodi* (Lepidoptera: Zygaenidae) in Korea
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- PS3M420 Longevity and Life table of the striped fruit fly (*Bactrocera scutellata*) adults on pumpkin flowers
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- PS3M426 Phylogenetic diversity of lignocellulosic biomass-degrading bacteria in the digestive tracks of a mole cricket (*Gryllotalpa orientalis*) and an Earthworm (*Eisenia fetida*)
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- PS3M427 Study of preservation and proliferation of the endangered species (*Argynnis nerippe*) in western islands of South Korea
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- PS3M433 The mitochondrial genetic population structure of the ant species, *Vollenhovia emeryi* (Hymenoptera: Myrmicinae) in Korea
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- PS3M436 Diversity of gamasid mites (Acari: Mesostigmata, Gamasida) in different agroecosystems
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- PS3M437 Comparison of oribatid mite communities between the pine forest and apple orchards
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PS3M439	Genetic variation in tendency to diapause in spider mite <i>Tetranychus pueraricola</i> Katsura Ito
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PS3M451	Utilization of <i>Anthophora plumipes</i> (Hymenoptera, Apidae) for pollinating various flowering plants inside the closed conditions Radha Devkota Adhikari, Pyochi Miyazawa
PS3M452	Origins of virulence: Genetic mechanisms of virulence inheritance in soybean aphid (<i>Aphis glycines</i>) biotypes. Jacob Wenger, Andrew Michel
PS3M453	Information theory and insect ecology: Read before you apply Pavel Drozd, Ales Dolny, Petr Kocarek
PS3M454	Faunistic data and global warming: Misleading approach or helpful information? Pavel Drozd, Ales Dolny, Petr Kocarek
PS3M455	Study of wintering stock of cabbage flies Bekzed Murodov
PS3M456	Foraging cycle of Asiatic honeybee <i>Apis cerana</i> in relation to qualitative and quantitative variations in floral rewards of some plants Dharm Pal Abrol, Mumukshyreddy Shankar Reddy
PS3M457	Pyrosequencing reveals dominance of <i>Arsenophonus</i> , <i>Buchnera</i> , and <i>Wolbachia</i> in bacterial communities of an invasive aphid Raman Bansal, Andy Michel
PS3M458	Age-stage, two-sex life table of <i>Brontispa longissima</i> (Gestro) (Coleoptera: Hispididae) feeding on four palm plant varieties Tao Jin, Yu-ying Lin, Qi-an Jin, Hai-ho Wen, Zheng-qiang Peng

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PS3M459	Two-sex life table analysis of population characteristics of <i>Cadra cautella</i> Walker (Lepidoptera: Pyralidae) on dry and semi-dry date palm varieties of Iran <i>Nouraddin Profshayesteh Shayesteh</i>
PS3M460	Seasonal monitoring of the major okra foliage pests and their associated predators complex at El-Gorair Scheme in Merowe Locality, Northern Sudan <i>Nazar Abdalla Ahmed Bilal, Abdalla Abdelrahim Satti</i>
PS3M461	Faunistic survey on the pests of poplar trees species and their distribution <i>Abbas Hosseinzadeh, Zahra Hashemi Khabar, Najar Aliqoli, Nouraddin Shayesteh</i>
PS3M462	Distribution of green oak moth, <i>Tortrix viridana</i> L. (Lepidoptera: Tortricidae) <i>Abbas Hosseinzadeh, Zahra Hashemi Khabar, Najar Aliqoli, Nouraddin Shayesteh</i>
PS3M463	<i>Introduction: Separation of Light from Darkness</i> <i>Gunther Pass</i>
PS3M464	Phylogenomic data support Remipedia as closest relative to Hexapoda <i>Byeom von Reumont, Emiliano Del Amico, Karen Meusemann, Gunther Pass, Bernhard Misof</i>
PS3M465	Origin and early splits in hexapods: a multidisciplinary approach within the international initiative 1000 Insect Transcriptome Evolution (1KITE) <i>Daniela Bartel, Alexander Blanke, Alexander Spahn, Makiko Fukui, Ryutaro Maehata, Karen Meusemann, Bernhard Misof, Yasutaka Nakagaki, Gunther Pass, Akito Petersen</i>

Section 4 IPM

August 23-24 (Thu-Fri)

Code No.	Presentation Title Authors_Presenting author
PS4TH001	Contact toxicity of three formulations from lambda- cyhalothrin against German cockroach, <i>Blattella germanica</i> (L.) (Blattaria: Blattellidae) Gholamhossein Moravvej, Aida Saboor Sadeghzadeh
PS4TH002	Natural enemies of <i>Bemisia tabaci</i> on cabbage plants in Qassim, Saudi Arabia Mohammad Abdullaziz Aldeghairi, Nagdy F. Abdel-Baky
PS4TH003	Psyllids damages to cultivated plants and forest timbers in Cameroon. Joseph Lebel Tamesse, Victor Joly Dzakou, Wenceslas Yana
PS4TH004	The application of powdery preparation "Erdust" against bread ground-beetle (<i>Zabrus tenebrioides</i>) on wheat crops Rakhmat Rasulov, Tulkun Ortikov, Sindar Pardayev
PS4TH005	Genetic modeling of the fipronil resistance's increase in the population of Colorado potato beetle Konstantin Kitaev, Elena Surina, Maxim Udakov, Galina Benkovskaya
PS4TH006	Examining the spatial and temporal factors that facilitate the distribution of <i>Halyomorpha halys</i> (Insecta: Hemiptera) in New Jersey, USA Adam Walner, Noel Hahn
PS4TH007	Influence of weed management on occurrence of the two-spotted spider mite, <i>Tetranychus urticae</i> and the native predaceous mite, <i>Neoseiulus womersleyi</i> in apple trees in northern Japan Ken Funayama
PS4TH008	Efficacy of bio-pesticides for the management of <i>Helicoverpa armigera</i> on chickpea in Central India Chandra Bhushan Singh
PS4TH009	Effect of selected doses of neem and pyrethrum based bio-pesticides on parasitism of <i>Liriomyza huidobrensis</i> (Blanchard) by <i>Phaenodroma scabriventris</i> Nixon Everlyne S. Namukye, Adenirin Chabi-Olaye, Kamel K. M. Fiahee, Daisy Salifu, Callistus K.P. O. Ogoi
PS4TH010	Suppression of fecundity, vitellin content and Nlvg gene expression in <i>Nilaparvata lugens</i> Stal (Hemiptera: Delphacidae) adult females exposed to sub-lethal dosages of indoxacarb and chlorantraniliprol Jinglan Liu, Xia Yang
PS4TH011	Effects of commonly used synthetic pesticides in Pea production systems on <i>Liriomyza huidobrensis</i> and its parasitoids in Central Kenya Mary M. Guantai, Kamel K.M. Fiahee, Callistus P.K.O. Ogoi, Daisy Salifu, John M. Kasina, Adenirin Chabi-Olaye
PS4TH012	Utilization Package of biological control agent of the green lacewing, <i>Mallada basalis</i> (Walker) (Neuroptera: Chrysopidae) Rattigan Submek, Sapon Uraichuen, Anuchit Chinajariyawong
PS4TH013	Fumigant activity of plant essential oils from basil and spearmint on the Mediterranean flour moth <i>Anagasta kuehniella</i> Zeller (Lepidoptera : Pyralidae) Panagiotis A.Iliopoulos, Christos N. Hassiotis, Stefanos S. Andreas
PS4TH014	Diversity and seasonal activity of bark and ambrosia beetles in South Carolina, USA Juang Horng Chong
PS4TH015	The economy of a successful ambrosia beetle management program in ornamental tree nursery Juang Horng Chong
PS4TH016	Geographic variation among Colorado potato beetle populations and its implications for managing insecticide resistance Andrei Alyokhin, David Moto-Sanchez, Mitchell Baker, Jie Chen, Mark Whalon
PS4TH017	Acaricidal bioactivity against <i>Tetranychus cinnabarinus</i> (Acari : Tetranychidae) of <i>Artemisia annua</i> extracts and their phytotoxicity on pest mites host plant cowpea Yong-qiang Zhang, Wei Ding, Jin-xiang Luo, Zhen-guo Yang
PS4TH018	Cost-effectiveness of integrated pest management compared with insecticidal spraying against the German cockroach in apartment buildings Gholam Hossein Shahraei, Dazokhligi Bin Omar, Hafideh Mohd Noor
PS4TH019	Contact activities of extracts from different parts of <i>Phytolacca americana</i> L. against <i>Tetranychus cinnabarinus</i> (Boisduval) (Acarina:Tetranychidae) Li-juan Ding, Wei Ding, Yong-qiang Zhang

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- PS4TH020 Bio-ecology of the red palm weevil, *Rhynchophorus ferrugineus* Olivier (Coleoptera: Curculionidae)
Oscar Dembilio, Josep Anton Jacas
- PS4TH021 Ground cover management affects species composition, distribution, and seasonal abundance of Thysanoptera occurring in citrus.
Ernestino Aguilar-Fenollasa, Josep Anton Jacas
- PS4TH022 Life history parameters for *Nesidiocoris tenuis* Reuter and *Macrolophus pygmaeus* (Rambur) (Hemiptera: Miridae) preying upon *Tuta absoluta* (Meyrick) (Lepidoptera: Gelechiidae)
Oscar Molla, Miquel Alonso-Valiente, Alberto Urbaneja
- PS4TH023 Molecular evaluation of sterile *Ceratitis capitata* males performance in field cages: correlation of mate achievement and fruit damage avoidance
Maria A. Juan-Biasco, Beatriz Sobater Munoz, Maria V. Ibanez-Gual, Rafael Angiles, Josep A. Jorda, Pedro Castanera, Alberto Urbaneja
- PS4TH024 Novel insect toxins from two scorpions inhabiting Japan, *Liocheilus australasiae* and *Isometrus maculatus*
Yoshiaki Nakagawa, Masahiro Miyashita, Hisashi Miyagawa
- PS4TH025 Botanical extracts in northeastern Brazil: Biological alternative to pest control in fruit species
Marcene Cesar Mendonça Chagas, Ernesto Espinaldo Sobrinho, Tiago Cardoso Costa Lima
- PS4TH026 Employing pheromone traps for seasonal monitoring of the potato tuber moth, *Phthorimaea operculella* (Zeller) (Lepidoptera: Gelechiidae) in Bulgaria
Mitko Subchev, Teodora B. Tashova, Daniela I. Atanasova, Vania D. Petrova, Miklos Toth
- PS4TH027 Optimum predation temperature and pesticide susceptibility of the predatory bug, *Geocoris proteus* Distant (Heteroptera: Geocoridae)
Yuta Tsuchida, Shinichi Masui, Yusuke Kato, Akio Tataru
- PS4TH028 Individual-based model for the spread of citrus greening disease by the vector insect *Diaphorina citri*
Yoshiaki Kabori, Fugo Takasu, Yosun Ohno
- PS4TH029 The association of a Lepidopteran borer complex between pecan nuts (*Carya illinoensis*) and citrus (*Citrus sinensis*) in the vaalharth region
Andre Petrus van Rooyen, Vaughn Richmond Swart, Sean Moore
- PS4TH030 Integration of bean resistance and a botanical insecticide (neem formulation) to manage the Mexican bean weevil
Danilo Akio de Sousa Esashika, Tamiris Alves de Araujo, Jussica Gonçalves Sousa, Antonio Macedo Dias, Cristina Schetino Bastos
- PS4TH031 Adoption of multiples tactics of the cotton IPM to manage the boll weevil.
Tamiris Alves Araujo, Yann Schmidt Teichmann Krueger, Andrey Mateus Macias, Ench Ramos Brandani, Valter Xavier dos Santos, Cristina Schetino Bastos
- PS4TH032 Attractiveness of blue and ultraviolet light-emitting diodes to *Thrips palmi* Karny
Yusuke Kato, Shinichi Masui, Yuta Tsuchida, Akio Tataru
- PS4TH033 Energy-saving light trap for cigarette beetles using flickering UV-LED.
Naoto Fukazawa, Satoshi Tsuchiya, Hirohide Inamoto, Ryo Takahashi
- PS4TH034 Effect of flonicamid on voltage-gated potassium currents
Hiroshi Shibakusa, Shogo Akumai, Chiaki Takeda, Shunichi Yotsuya, Kiyamitsu Yoshida, Tomohisa Ishikawa
- PS4TH035 Eradication of the solanaceous fruit fly, *Bactrocera latifrons* (Hendell) (Diptera: Tephritidae), from Yonaguni Island, Okinawa, Japan
Takashi Matsuyama, Tsuguo Kohama, Chikara Miyazaki, Hiroyuki Kubo, Noriaki Maqui, Aya Kobayashi
- PS4TH036 Do closely related plants play a role in enhancing problems caused by *Meligethes aeneus* Fab?
Ritina Kaasik, Gabriella Kovacs, Luuk Metsalu, Eve Veromann
- PS4TH037 Fatal attractiveness? Host plant may kill its enemy's offspring
Eve Veromann, Ritina Kaasik, Gabriella Kovacs, Luuk Metsalu
- PS4TH038 BIOPOPOL: Targeted precision biocontrol and enhanced pollination
Helkki Hakkarinen, Otto Boecking, Andrew Cokl, Beate Coker, Carsten Eiken, Reet Karsse, Jasna Krag, Bettina Maccagnoni, Ingeborg Menzel-Hackmann, Veronika Marmann, Monika Mand, Guy Smagghe, Niklas Soderlund, Sirek Tuncat, Eve Veromann, Peter Witzgall
- PS4TH039 The use of companion planting for the management of the large white butterfly (*Pieris brassicae*) on white cabbage (*Brassica oleracea* var. capitata)
Gabriella Kovacs, Ritina Kaasik, Anne Luk, Eve Veromann
- PS4TH040 Wild hosts of spotted wing drosophila a new threat to berry crops in Florida, USA and elsewhere
James F. Price, Curtis A. Nagle

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P54TH041	Biological fitness and feeding behavior of imidacloprid-resistant and -susceptible brown planthopper, <i>Nilaparvata lugens</i> (Stål) on different resistant rice varieties Jianming Chen, Li Chen, Yueping He, Juefeng Zhang
P54TH042	Soil-borne insect pests in DPR Korea: Identification of key targets and timing for control Hongmei Li, Keith Andrew Holmes, Song H Kang, Yong Suk Ryang, San Gun Park, Kyong Man Son, Riehou Han, Jinghua Chen, Franz Bollwacker, Daniel Zingg, Marc Kenis, Zhenying Wang, Stefan Toebe
P54TH043	Harmonic radar finders as insect monitoring devices Gilles Boiteau, Charles Vincent, Francois Meloche, Tracy C. Leskey, L.Y. Gu, Bruce G. Colquhoun
P54TH044	Effect of sublethal insecticide exposure on individual variation in activity and prey capture in the jumping spider <i>Eris militaris</i> (Araneae: Salticidae) Raphael Royauté, Chris M. Buddie, Charles Vincent
P54TH045	Leafhopper biodiversity in Canadian vineyards and feeding behavior of three <i>Erythroneura</i> species Julien Saguez, Andy Hamilton, Chrystel Olivier, Charles Vincent, Jacques Lacroix, Brian Galka, Lorne Stobbs, Tom Lowery, Philippe Giardano
P54TH046	The study on the protein bait of <i>Bactrocera dorsalis</i> (Diptera: Tephritidae) Wenjing Zhang, Hongyu Zhang
P54TH047	Study on non-chemical control techniques of <i>Thrips flavidulus</i> (Thysanoptera: Thripidae) Hailong Yao, Fahai Yu, Hongyu Zhang
P54TH048	Behavioral response of the egg-larval parasitoid <i>Ascogaster reticulata</i> to tea leaves treated with host eggs or other host materials Narisara Piyasengthong, Yooichi Kainoh
P54TH049	Pyrethroid resistance in melon thrips, <i>Thrips palmi</i> Karny Wen Xue Bao, Shoji Sanoda
P54TH050	Management of strawberry blossom weevil and European tarnished plant bug in organic strawberry and raspberry using semiochemical traps Atle Wibe, Iize Apenlis, Catherine Baroffio, Anna-Karin Borg-Karlson, Jerry Cross, David Hall, Lene Sigurdson, Nina Trandem
P54TH051	Mating disruption of <i>Planococcus kraunhiae</i> (Kuwana) (Hemiptera: Pseudococcidae) with its sex pheromone in Japanese Persimmon Orchards Yutaka Nara, Nobuo Sawamura, Rikiya Sasaki, Jun Tabata, Mayumi Teshima
P54TH052	Population genetics of <i>Bactrocera dorsalis</i> and <i>B. papayae</i> across Thai-Malay Peninsula Nidchaya Aketawong, Sirwan Isadwin, Sujinda Thanaphum
P54TH053	The SLU Centre for Biological Control: Generating new knowledge on sustainable application of biological control Margareta Hakeberg, Hanna Friberg, Sebastian Hakansson, Mattias Jonsson, Ingvar Sundh
P54TH054	Exploring a mass-production with an artificial diet in the sweetpotato weevil <i>Cylas formicarius</i> Takashi Takizawa, Norikuni Kumano, Keiko Shimoto, Tetsuya Toyosato, Takashi Kuriwada, Takashi Matsuyama
P54TH055	Insecticidal effect of <i>Jatropha curcas</i> oil on the main insect pests associated with cowpeas (<i>Vigna unguiculata</i>) in Niger Zakari Abdoul Hobau, Frederic Francis, Toudou Adam, Guy Mergeat, Eric Houbrege, Francois Verheggen
P54TH056	Application of semiochemical releasers and intercropping to control aphid and related virus in East China Emilie Bosque, Thomas Lopes, Damien Polo Lavano, Sophie Vandermoten, Ju Lian Chen, Cheng Dengfa, Liu Yong, Eric Houbrege, Frederic Francis
P54TH057	Mating disruption for control of codling moth, <i>Cydia pomonella</i> , in commercial apple orchards in Quebec, Canada Daniel Cormier, Francine Pelletier
P54TH058	Phenotypic and genetic diversity of rice varieties and relation to attack of <i>Diatraea saccharalis</i> Jose Alexandre F. Barrigossi, Jacqueline Barbosa Nascimento, Paulo Marcal Fernandes, Tereza Cristina de Oliveira Barba, Raquel Neves de Melo, Jose Francisco da Silva Martins
P54TH059	Pathogenicity test of the fungus <i>Aspergillus clavatus</i> on aphid <i>Acyrtosiphon pisum</i> (Aphididae) Fawzi Saye, Thomas Bawin, Franck Delvigne, Frederic Francis
P54TH060	Damage levels of two stink bugs (Heteroptera: Pentatomidae) that feed on rice stems in Brazil Tavris Micoel Alves, Jose Alexandre F. Barrigossi, Daniel Ferreira Calzetta, Henrique Matias R. Silva
P54TH061	Assessment of synthetic chemicals for disruption of <i>Rhynchophorus ferrugineus</i> attraction in an urban environment Salvatore Guarino, Ezio Per, Paolo La Bue, Mari Pia Germano, Stefano Colazza, Leonid Anshelevich, Victoria Soroker

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- PS4TH062** Comparison of aphidofauna in Belgium and Mali and potential impact on potato virus dispersion
Almouner A. Yattara, Amadou K. Coulibaly, Claude Bragard, Souhail Wendenmatten, Eric Houbrige, Frederic Francis
- PS4TH063** Preliminary study of hydroxymethylfurfural (HMF) presence in syrup to feed bees in Belgium
Lara Zörbes, Bach Kim Nguyen, Sophie Vandermaten, Dirk C. de Graaf, Rynja De Meulenaar, Wim Reymiers, Claude Sabejournig, Eric Houbrige
- PS4TH064** Invasive exotic plant species in the Southern Appalachians (USA): Potential targets for biological control
Jerome F. Grant, Gregory J. Wiggins, Paris C. Lombin
- PS4TH065** Status of the codling moth and the oriental fruit moth populations in apple orchards of Quebec, Canada
Daniel Cormier, Caroline Provost, Franz Vanoochouris, Gerald Chauvin
- PS4TH066** Prevalence of phytoplasma diseases in Canadian vineyards
Chrystel Olivier, Julien Sagoo, Brian Galka, Lorne Stobbs, Tim Lowery, Charles Vincent
- PS4TH067** Insights into the potential of classical biological control in a changing climate
Owen Offert, Tim Hoyer, Ross Weiss, Jakob Ruland
- PS4TH068** Plant physiological disruption preceding hopperburn by a leafhopper
William O. Lamp, Bridget DeJoy
- PS4TH069** Volatile organic compounds of teak and behavioral responses of termites to teak volatiles
Prodpran Thakorn, Sergio Angeli
- PS4TH070** Coordinated monitoring, forecasting and risk warning systems for field crop insects in western Canada
Jennifer Otazi, Scott Meers, Scott Hawley, John Gavlusky, Lloyd Doudall, Hector Carcamo, Owen Offert
- PS4TH071** Global effort to maintain susceptibility of the ryanodine receptor modulators and other insecticide modes of action: Efforts of the IRAC International Diamide (Group 2B) Working Group
Compagny Veronica, John T. Andolova, Luis Tesero, Nader Billy Annan, Robert S. Sene, Russell Slater, Anna Armstrong, Ralf Nauw
- PS4TH072** Features and attributes of DuPont™ Cyazypyr™ (DPX-HGW86, Cyantraniliprole): A New Anthranilic Diamide Insecticide
Isaac Billy Annan, Hector E. Portillo, Juan M. Alvarez, Santos D. Dany, Robert M. Knightly, Rachel A. Gonsky, Donald C. Clegg, Christopher J. Williams, Joseph P. Salenik, Mary P. Kuehner, Christopher E. Clark, James D. Scott
- PS4TH073** Different spectrum of insecticide resistance in the peach aphid *Myzus persicae* (Sulzer) (Homoptera: Aphididae) in populations from Beijing area, China
Ye-Jun Gong, Shu-Jun Wei, Bao-cai Shi, Jian-hua Liu, Xiao-jun Guo, Ying-mei Wang
- PS4TH074** Diversity and genetic differentiation of the whitefly *Bemisia tabaci* species complex in China based on mtDNA CO1 analysis
XiaoJun Guo, Chen Luo, Fan Zhang, Jiwu Guo
- PS4TH075** Life cycle (developmental) stages of *Hymenys recurvallis* (f.) (Lepidoptera: Pyralidae) on susceptible amaranthus species in Ibadan south-west Nigeria
Ismail Adeniran Aderolu, Amos Adeniyi Olatunji
- PS4TH076** Investigation of occurrence and spatial distribution of *Pseudaulacaspis pentagona* (Targioni-Tozzetti) on peach trees in greenhouse
Yingnan Wang, Fan Zhang, XiaoJun Guo
- PS4TH077** Rapid expansion in geographic range of infestation of shiitake mushrooms by fungus gnat pest, *Neoempheria ferruginea* (Brunetti) (Diptera: Mycetophilidae), in Japan
Masahiro Sueyoshi, Hiroshi Kajiyama, Etsuko Kajiyama
- PS4TH078** Specificity of pheromones traps for monitoring mealybugs in vineyards and pictorial key for males
Tania Zaviezo, Margarita Correa, Aldo Romero, Páola Rojas
- PS4TH079** Seed treatment insecticide alternatives to manage soil insect pests of sugarbeet
Mark A. Boetel, Allen J. Schroeder, Robert J. Drege, Ajay Kumar Majumdar
- PS4TH080** Comparative evaluation of VOCs emitted by *Achillea collina* infested by aphids and mechanically damaged
Annemaria Giargi, Sara Panzeri, CN Nanayakkarachchi, Matarichige, Marwala Mwanji, Luca Chessa, Giuseppe Luzzo
- PS4TH081** Corn leaf aphid abundance in Cry3Bb1- and conventional-maize hybrids in South Dakota
Billy Fuller, Rosemary Gutierrez, Bradley McManis
- PS4TH082** Laboratory and field evaluation of *Isaria fumosorosea* (wise) brown and smith against cotton pests
Pathamohan Vinayaga Moorthi, Chellai Balakrishnan, Asim Mahmood Nayfeh Bani, Thangavel Kubendran, Thangam Rathnakumar
- PS4TH083** Development and reproduction of *Ophraella communa* (Coleoptera: Chrysomelidae) on *Ambrosia artemisiifolia* and *Parthenium hysterophorus* and its potential for biological control
Chin-ling Wang, Chen-Shen Lai, Feng-Chyi Lin, Mou-Yen Ching

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PS4TH084	Outcomes of intraguild interactions between two egg parasitoids in field and semi-field conditions Valentina Amodeo, Antonino Cusumano, Ezio Peri, Paolo La Bue, Stefano Colazza
PS4TH085	Transmissibility of saffron infecting potyvirus in Iran by different aphid species Shahin Parizad, Mina Koochi Habibi, Ghahraman Hossein Mossahebi, Akbar Dazadji, Yasaman Moghaddasi
PS4TH086	Development and implementation of an area-wide management of Asian citrus psyllid (<i>Diaphorina citri</i> Kuwayama) in Texas Mamoudou Setamou, David Bartels, Matt Ciampelli, John V. da Graça
PS4TH087	Selection and characterization of a <i>Spodoptera frugiperda</i> strain resistant to transgenic maize expressing a <i>Bacillus thuringiensis</i> protein Natalia Alves Leite, Simone Martins Mendes, Thais Patricia Moreira Teixeira, Eliseu Jose Guedes Pereira
PS4TH088	Assessment of <i>Harmonia yedoensis</i> Takizawa (Coleoptera: Coccinellidae) as a new agent for biocontrol Ekaterina N. Balueva, Toeh Kim, Jong Wook Lee
PS4TH089	Monitoring pesticide resistance of two spotted mite, <i>Tetranychus urticae</i> in rose greenhouses in Korea Bu-Keun Chung, Byoung-Ryoung Jeong, Si Hyeok Lee, Tae-Soo Chan, Siwook Lee
PS4TH090	Larvicidal and repellent activity of Korean endemic <i>Thymus magnus</i> Nakai against the Asian tiger mosquito, <i>Aedes albopictus</i> Young-Uk Park, Hyun-Na Koo, Gil-Hah Kim
PS4TH091	Within-tree distribution of <i>Dialeurodes citri</i> (Homoptera: Aleyrodidae) immature on citrus trees Jeong Heub Song, Soan Yeong Hong, Shin Chan Lee, Seong Geun Kang
PS4TH092	Occurrence tendency of major pests in Korean apple orchards for past 20 years Kyung Hee Choi
PS4TH093	Control effect of mating disruption, Confuser R and Isomate KR to fruit moths in Korea apple orchards Kyung Hee Choi, Soanwon Lee
PS4TH094	Recent occurrence status of three major species of fruit moths in apple orchards Hyangmi Kim, Il Jang, Soanwon Lee, Yoon Jung Kim, Joo Hee Song, Kyung Hee Choi, Nak Sam Seong
PS4TH095	Recent occurrence status of <i>Panonychus ulmi</i> and <i>Tetranychus urticae</i> in apple orchards Il Jang, Soanwon Lee, Hyangmi Kim, Yoon Jung Kim, Nak Sam Seong
PS4TH096	Oviposition model of <i>Frankliniella occidentalis</i> (Pergande) (Thysanoptera: Thripidae) Sun Kyung Lee, Marana Park, Ju Won Yoo, Jooh-Ho Lee
PS4TH097	Enhanced repellency against <i>Aedes aegypti</i> by composition of plant essential oils with vanillin addition and its application Seung-jee Baek, Soon-il Kim, June-sun Yoon, Sung-hwa Lee, Young-joon Ahn, Hyung Wook Kiwon
PS4TH098	The effect of exposure to a pulsed yellow light-emitting diode (LED) on the adult flight behavior of the cotton bollworm, <i>Helicoverpa armigera</i> Jungbeom Yoon, Masashi Nemura, Satoshi Ishikura
PS4TH099	Interactions between tannic acid and <i>Bacillus thuringiensis</i> subsp. kurstaki KB100 against <i>Spodoptera exigua</i> Mi Jin Jee, Na Young Jin, Chang Soan Kwak, San Na Oh, You Kyung Lee, Mi Ja Seo, Young Nam Yoon, Yong Man Yu
PS4TH100	Seasonal occurrence of <i>Riptortus pedestris</i> on Hairy Vetch and its development and longevity on host Hye Ri Kwon, Min Woo Park, Shin Hyuk Jo, Sae Hee Kim, Mi Ja Seo, Yong Man Yu, Young Nam Yoon
PS4TH101	Antifeedant activity and electrophysiological response of <i>Ailanthus altissima</i> against <i>Plutella xylostella</i> (Lepidoptera: Plutellidae) Hyun Na Koo, Jin-Won Jeong, Gil-Hah Kim
PS4TH102	Comparison of plasmid DNA and cry Gene in <i>Bacillus thuringiensis</i> subsp. aizawai KB098 and Their Mutants Mi Jin Jee, Na Young Jin, Chang Soan Kwak, San Na Oh, You Kyung Lee, Mi Ja Seo, Young Nam Yoon, Yong Man Yu
PS4TH103	Insecticidal activity and molecular genetics studies of <i>Bacillus thuringiensis</i> CAB530 You Kyung Lee, Na Young Jin, Chang Soan Kwak, San Na Oh, Mi Jin Jeon, Mi Ja Seo, Young Nam Yoon, Yong Man Yu
PS4TH104	Effect of pests occurrence on the surface management methods of orchards Duck-Soo Choi, Da-ik Kim, Sug-Ju Ka, Beom-Ryoung Kang, Jung-Dae Park
PS4TH105	Insecticidal activity of plant extracts by farmers' made to manage brown plant hopper, <i>Nilaparvata lugens</i> Da-ik Kim, Duck-Soo Choi, Sug-Ju Ka, Beom-Ryoung Kang, Seon-Aim Kim, Yong-In Auk, Jung-Dae Park, Sang-Soo Kim
PS4TH106	Influence of aggregation pheromone trap on the distribution of egg parasitoids of <i>Riptortus pedestris</i> (Hemiptera: Alydidae) in soybean Bishwesh Prasad Malnoli, Un Taek Lim

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- PS4TH107** The Effect of light-emitting diodes source and quality on occurrence of Aphid
Hae Ran Kim, Kyeong-Mi Lee, Jang-Mi Shin, Hoon-bok Yi, Young-Han You
- PS4TH108** Impact of resistance inducers for the management of late blight and sucking insects on Potato
Muhammad Usman Ghazanfar, Wajid Wajid, Yong Jung Kwon
- PS4TH110** Studies on standard setting and mass rearing of natural enemies: *Aphidius colemani* Viereck, *Nesidiocoris tenuis* (Reuter) and *Chrysoperla carnea* (Stephens)
Eunhye Ham, Cheol Hak Kim, Young Cheol Choe, Jun Seok Lee
- PS4TH111** Superior defense systems in maize landraces: a potential pest management tool for smallholder maize farmers in Africa
Charles A.O. Midega, Amanuel Tamiru, Toby Bruce, John Pickett, Zeyaur Khan
- PS4TH112** Study on resistance monitoring of major pests in rice to insecticides
Xiao Hu, Jianhong Li, Peng Lu, Xiaoli Zhang
- PS4TH113** Developmental Control of brown planthopper *Nilaparvata lugens* (Hemiptera: Delphacidae) by ingestion of dsRNA of arginine kinase gene
Miao Yuan, Jianhong Li, Xinru Wang, Dequn Cao
- PS4TH114** Resistance monitoring of *Plutella xylostella* to insecticides in central China
Hao Qiu, Jianhong Li, Daoen Bi, Fengna Yao, Hong You
- PS4TH115** Comparative vertical and horizontal dispersion behavior of *Trichogramma brassicae* in the maize and rice fields
Gholamhossein Gharekhanlou, Samaneh Soltanzadeh, Ali Mehrvar
- PS4TH116** Sequential sampling plans for estimating population density of *Heliothis virescens* Hufnagel (Lep.: Noctuidae) on Rain-Fed chickpea
Heidar Adilzadeh, Nouraddin Shayesteh
- PS4TH117** Toxicity of chlorpyrifos and fenprothrin to *Hobrobracon hebetor* (Hymenoptera: Braconidae)
Hajar Faei-mohammadal, Ali-Asghar Sevari, Khadija Talebi-Jahromi
- PS4TH118** The importance of the parasitoid *Bracon hebetor* Say and the pheromone traps for controlling *Ephestia* spp. in the Date store
Ayad Ahmed Ridha Al-Taweel
- PS4TH119** Parasitism of *Heliothis virescens* Hufnagel (Lepidoptera: Noctuidae) larvae by *Banchopsis crassicornis* Rudow (Hymenoptera: Ichneumonidae) in rain-fed chickpea
Heidar Adilzadeh, Nouraddin Shayesteh
- PS4TH120** Study on synergistic effects of henna in enhancement of pathogenicity of *Bacillus thuringiensis* Berliner on third and fourth instars larvae of Colorado potato beetle, *Leptinotarsa decemlineata* (Say)
Akbar Ghassemi-Kahrizchi, Nouraddin Shayesteh
- PS4TH121** Study on morphological indices of Colorado potato beetle, *Leptinotarsa decemlineata* (Say) in west Azerbaijan province
Akbar Ghassemi-Kahrizchi, Nouraddin Shayesteh
- PS4TH122** Control of eight species of important stored products pest insects with environmentally compatible compounds
Gholamreza Sadeghi, Jafar Hosseinzadeh, Nouraddin Shayesteh
- PS4TH123** Resistance of different grape cultivars to grape erineum mite, *Colomerus vitis* (Acari: Eriophyidae) in laboratory conditions
Saeid Javadi Khaderi, Mohammad Khajepour, Babak Zahedi
- PS4TH124** Total phenol and o-dihydroxy phenol profiles of black gram (*Vigna mungo* (L.) Hepper) genotypes infested by *Bemisia tabaci* (Gennadius) (Hemiptera: Aleyrodidae)
Gaurav Kumar Taggar, Ranjit Singh Gill, Anil Kumar Gupta, Sarveer Singh
- PS4TH125** Insecticide resistance in Western flower thrips, *Frankliniella occidentalis* Pergande (Thysanoptera: Thripidae), on glasshouse cucumbers in Republic of Moldova.
Elena Moanaru, Mihail Botca, Igor Yatsavetsky
- PS4TH126** Effect of sublethal doses of spiromesifen, spirotetramat and spirotolifen on fecundity and fertility of female adults of *Tetranychus urticae* Koch (Acari: Tetranychidae)
Mir Jalil Hejazi, Marziyeh Amlashi, Ghasem Askan Sarayzadi
- PS4TH127** Lethal temperature for Japanese termite, *Reticulitermes speratus*, in infested wood using microwave energy
Sang Jae Suh, Jinseo Kim, Yong Jung Kwon
- PS4TH128** Lethal temperature for Japanese pine sawyer, *Monochamus alternatus*, in infested wood using microwave energy
Sang Jae Suh, Jinseo Kim, Yong Jung Kwon

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PS4TH129	Model development by control technique of natural enemy on the insect pest in cucumber greenhouses in Korea Hyeon Hwan Kim, Myoung Bae Cho, Taek Jun Kang, Sung Jun Ahn, Sung-Wook Jeon, Hae Woong Park
PS4TH130	Occurrence of <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae) in Sindh, Pakistan Mansoor Ali Shah
PS4TH131	Management of mango hoppers <i>Idioscopus</i> spp. and <i>Amritodus</i> spp. (Cicadellidae: Hemiptera) Abraham Verghese, Suresh Devi Thangam, G. Thirumagaewala Geetha
PS4TH132	A new technique to control and rejuvenate wood bored mango trees by <i>Batocera rufomaculata</i> (Fale) (Cerambycidae: Coleoptera) Thippenahalli Narayanappa Shivananda, Abraham Verghese, Manjunath R Hegde, Amrik Singh Sidhu
PS4TH133	Popularizing IPM of oriental fruit fly (<i>Bactrocera dorsalis</i>) in mango through an area wide approach in India Thippenahalli Narayanappa Shivananda, Abraham Verghese, Manjunath R Hegde, Amrik Singh Sidhu
PS4TH134	Evaluation of entomopathogenic fungi for the control of green peach aphid, <i>Myzus persicae</i> Won Woo Lee, Tae Young Shin, Jae Bang Choi, Sung Min Bae, Yeon Ho Jo, Byung Rae Jin, Soe Dong Woo
PS4TH135	Preparation and characterization of pheromone dispenser using nano materials Sung Man Seo, Hu Sik Kim, Un Taek Lim, Woo Taek Lim
PS4TH136	Effect of pyriproxyfen on some physiological aspects of the pistachio fruit hull borer, <i>Arimania comaroffi</i> , pupae Marjan Bernari, Mamzoh Izadi, Karvan Mahdian, Mehdi Basirat
PS4TH137	Insecticidal effects of <i>Thuja occidentalis</i> (Cupressaceae) essential oil on <i>Tribolium confusum</i> Duval (Col.: Tenebrionidae) Nouraddin Shayesteh, Jafar Hosseinzadeh, Shadi Delkhoo, Omid Panchi
PS4TH138	Effects of <i>Lufax</i> on <i>Lobesia botrana</i> (Lepidoptera: Tortricidae) egg and larval stages Jafar Hosseinzadeh, Nouraddin Shayesteh, Shadi Delkhoo, Omid Panchi
PS4TH139	Interaction of <i>Bacillus thuringiensis</i> Berliner and the parasitoid, <i>Diadegma insulare</i> (Cresson) (Hym., Ichneumonidae) and diamondback moth, <i>Plutella xylostella</i> (L.) (Lep., Plutellidae) Morteza Ebrahimi, Alhad Sahragard, Reza Talebi-Hassanioui
PS4TH140	Abundance of the beneficial insect predator <i>Laius venustus</i> (Coleoptera: Malchiidae) in Sudan and risk of some commonly used insecticides on its population Hayder Abdelgader
PS4TH141	The application of insecticide against wires (<i>Agrotis meticulous</i>) at planting potatoes Rokhmat Rasulov, Tulkun Ortikov, Toshniyoz Goziev
PS4TH142	The biological protection of tomatoes from broomrape with the help of <i>Ptyomyza orobanchia</i> Kalt Rokhmat Rasulov, Toshniyoz Goziev
PS4TH143	Eco-friendly approaches for corn pest management Myleen Raymundo Carpuz
PS4TH144	Compatibility of <i>Lecanicillium longisporum</i> with acetamipride and imidaclopride under laboratory condition Omid Panchi, Jafar Hosseinzadeh, Shadi Delkhoo, Nouraddin Shayesteh, Zahra Lak
PS4TH145	Bionomic of <i>Tetranychus urticae</i> and <i>Scolothrips longicornis</i> on bean and cucumber Hajar Pakyari
PS4TH146	Preliminary observation on the relation of BPH resistance and RRSV infection in rice entries carrying different BPH resistance genes Xudong Zhu
PS4TH147	Effects of two isolates of <i>Beauveria bassiana</i> (Balsamo) Vuillemin on <i>Leptinotarsa decemlineata</i> (Say) (Col.: Chrysomelidae) larval stage Mohammad Hossein Kazemi, Yousef Shafagh, Yobert Ghousta, Jamshid Akbarian, Nouraddin Shayesteh
PS4TH148	Investigation of lethal effect of <i>Proteus</i> and <i>Movento</i> on tobacco aphid (<i>Myzus nicotianae</i> Blackman) under greenhouse condition Sepideh Khalilolahi, Mohammad Hassan Safar-Akbari, Nouraddin Shayesteh
PS4TH149	Cloning and expression of a novel cryII gene from <i>Bacillus thuringiensis</i> isolates and its toxicity against <i>Myliocerus undecimpustulatus undatus</i> Marshall (Coleoptera: Curculionidae) and <i>Helicoverpa armigera</i> H.M. Mahadeva Swamy, Ramasamy Asokan, Geetha G. Thirumagaewala, Nagesha S. N. Riaz Mahmood, Dilip K. Arora
PS4TH150	Investigation of lethal effect of <i>Proteus</i> and <i>Movento</i> on tobacco aphid (<i>Myzus nicotianae</i> Blackman) under greenhouse condition Sepideh Khalilolahi, Mohammad Hassan Safar-Akbari, Nouraddin Shayesteh

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- PS4TH151 An investigation on aphids (Homoptera) biodiversity of apple trees in Urmia region
Nouraddin Shayesteh, Hossein Rangi
- PS4TH152 Study on aphids (Homoptera) fauna of wheat form in West Azerbaijan, Iran
Nouraddin Shayesteh, Hossein Rangi
- PS4TH153 Investigation of population fluctuations of sunn pests egg parasitoids (Hymenoptera: Scelionidae) and estimating parasitism rate in central regions of West Azerbaijan Province, Iran
Farnaz Shafaei, Shahzad Iranipour, Mohammady Hussaini Kazemi, Esmail Alizadeh
- PS4TH154 Survey of the caused damage by the birds on the sunflower fields in different planting dates in west Azarbaijan
Esmail Alizadeh, Nouraddin Shayesteh
- PS4TH155 The review of insecticidal activity and oviposition deterrence of essential oils from *Artemisia dracunculul* L and *Mentha piperita* L against *Callosobruchus maculatus* F.(Col.: Bruchidae)
Khadjeh Asakmeini, Moosa Saber, Samad Vafaei
- PS4TH156 Insecticidal activity and GC/MS analysis of three essential oils on cowpea weevil *Callosobruchus maculatus* F. (Col.: Bruchidae)
Khadjeh Asakmeini, Moosa Saber, Mahyarzad Bagher-Hassanzadeh, Ali Akbari
- PS4TH157 Lethal, sublethal and combination effects of azadirachtin and *Bacillus thuringiensis* Berliner on cotton bollworm, *Helicoverpa armigera* Hubner (Lepidoptera: Noctuidae)
Zahra Abedi, Moosa Saber, Samad Vafaei, Esmail Alizadeh
- PS4TH158 Acute and population level toxicity of azadirachtin and cypermethrin on larval ectoparasitoid *Habrobracon hebetor* Say (Hymenoptera: Braconidae)
Zahra Abedi, Moosa Saber, Ali Mehrvar, Ghokmehssein Ghazvini
- PS4TH159 Insecticidal effects of 1, 8-cineole essential oil on *Tribolium confusum* Duval (Col.: Tenebrionidae) under laboratory conditions
Jamshid Marzanghi, Mohammad Hossein Safemirzaei, Nouraddin Shayesteh, Jafar Vafaei
- PS4TH160 Preliminary studies on prevailing species of rose stem borer sawflies in Urmia, Iran
Nouraddin Shayesteh, Jamshid Akbarian, Shaliram Arzouman, Mehdi Bagheri
- PS4TH161 Life table parameters of *Agonosena bimaculata* on Khinjuk trees, *Pistacia khinjuk* and cultivated pistachio *Neda Fallahnejad Majarad, Sohrab Emami, Mina Khajepour, Mohammad Mehdi Alizadeh, Karam Samati*
- PS4TH162 Field evaluation of *Beauveria bassiana* and *Verticillium lecanii* against jasmin whitefly, *Aleuroclava jasmine* on citrus
Hussain Fadhil Mohammed Ali
- PS4TH163 Efficacy of *Bacillus thuringiensis* against the larvae of *Helicoverpa armigera* and its compatibility with *Metarhizium anisopliae* and chlorantraniliprole
Waqas Wakil, M. Usman Ghaznawi, Hong Jung Kwon, Mirza Asadul Ojapuri, Jahed Akbari
- PS4TH164 Comparative study on the effect of *Bacillus thuringiensis* var. tenebrionis, imidacloprid and phosalone on different larval instars of *Leptinotarsa decemlineata* (Say) under laboratory conditions
Akbar Ghassemi-kahrizchi, Shirin Mohammadtalebi, Mahmood Pouryousefi-Khyarabadi, Ghobad Arghavani
- PS4TH165 Study on morphological indices of Colorado potato beetle, *Leptinotarsa decemlineata* (Say) in west Azerbaijan province
Akbar Ghassemi-kahrizchi, Nouraddin Shayesteh
- PS4TH166 Study on synergistic effects of henna in enhancement of pathogenicity of *Bacillus thuringiensis* Berliner on third and fourth instars larvae of Colorado potato beetle, *Leptinotarsa decemlineata* (Say)
Nouraddin Shayesteh, Akbar Ghassemi-kahrizchi
- PS4TH167 Genetic rice breeding for resistance to the *Oryzophagus arylae* in Brazil
Jose Francisco da Silva Martins, Paulo Ricardo Reis Fagundes, Diomar S. Delgado Almeida
- PS4TH168 A effective pesticide? Spirotetramat for the control of the *Cacopsylla chinensis* Yang & Li (Hemiptera: Psyllidae)
Ya-Jun Gong, Shu-Jun Wei, Bao-Cai Shi
- PS4TH169 Mechanism of resistance in wild relatives of pigeonpea against *Morua vitrata* Geyer (Lepidoptera: Pyralidae)
Chitra Narayanasamy, Polansamy Soundararaman, Sathya Gopinath
- PS4TH170 Seasonal migratory behaviors of *Mythimna separata* (Lepidoptera: Noctuidae) in Northeast China
Yunhui Zhang, Zhi Zhong, Dengfa Chen
- PS4TH171 Insecticidal potentiality of *Datura innoxia* leaf extracts against the adult cluster bug *Agonoscelis pubescens* (Thunberg) (Heteroptera: Pentatomidae)
Hassam Ahmed Elmassari, Abdalla Abdelrahim Satti, Zuhair Alkhatib Alkhatib

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PS4TH172	Evaluation of synthetic (Indoxacarb, Flubendamide, Spinetoram, Flufenoxuron, Chlorfenpyr, Leufenuron and Coragen) and Microbial pesticides (Emamactin and Spinosad) against <i>Spodoptera litura</i> Fawad Khan, Noor Abid Saeed, Abdul Khatib, Muhammad Sagheer, Sajid Nadeem
PS4TH173	The synergistic effect of Henna powder on increasing efficacy of <i>Bacillus thuringiensis</i> var. <i>Kurstaki</i> against third larval instar of pistachio white leaf moth <i>Ocneria terebinthina</i> (Lep.: Lymanteridae) Zahra Sheibani Tezerji
PS4TH174	Reproductive toxicity of Imidacloprid and bifenthrin to the biological control agent, <i>Chrysoperla carnea</i> Haliza Tahira Gul, Shafiqat Saeed, Attaullah Khan Pathan
PS4TH175	Analysis of physio-morphic traits in different host plants associated with resistance to <i>Phenacoccus solenopsis</i> : An invasive pest in Pakistan Muhammad Rafiq Shohid, Muhammad Jalal Arif, Muhammad Dilidar Gogi
PS4TH176	Investigation on the most appropriate pattern, sample unit and sample universe to estimate <i>Tetranychus urticae</i> Koch. population in common bean, <i>Phaseolus vulgaris</i> fields. Nasim Abolfathi

Section 5 Pathology

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PS5TH177	ABCC2 functions as a receptor for <i>Bacillus thuringiensis</i> Cry toxin Shiho Tanaka, Kazuhisa Miyamoto, Hiroaki Noda, Ryoichi Sato
PS5TH178	Characterization of cell line developed from the neonate larvae of <i>Papilio demoleus</i> Linnaeus (Lepidoptera: Papilionidae) Weifeng Ding, Ying Feng, Xin Zhang, Xiao-Ming Chen, Xian Li, Cheng-Ye Wang, Tao Ma
PS5TH179	Economized media for spore production of white mearcardine, <i>Beauveria bassiana</i> (Balsmo) Vuillemin and its pathogenicity on <i>Brontispa longissima</i> Paweena Buchatian, Wawat Suasard, Anuchit Chaiyachaiyong
PS5TH180	Analysis of two molecules determining susceptibility to Cry1 toxin in <i>Ostrinia scapularis</i> Haruka Endo, Ryoichi Sato
PS5TH181	The baculovirus uses a stolen host phosphatase to induce enhanced locomotory activity in host caterpillars Susumu Katsuma, Yasuo Koyama, Won Kyung Kang, Ryuhei Kakusho, Shozo George Kamita, Toru Shimada
PS5TH182	Comparative proteomic analysis reveals the mechanism of morphological and physiological changes of <i>Bacillus thuringiensis</i> YBT-1520 under heat stress and its survival strategies Mingshun Li, Dandan Wu
PS5TH183	The human gene for Gaucher disease causes the neurodegeneration in the eye of <i>Drosophila</i> Takahiro Suzuki, Masami Shimada, Kumpi Ito, Shuji Hamai, Hidenobu Aizawa, Tomoki Katou, Kazunori Kawasaki, Hyung Don Ryoo, Naoko Goto-Inoue, Mitsutatsu Setou, Shoji Tsuji, Terumi Yamaguchi, Nario Ishida
PS5TH184	Role of the polyhedrin promoter in enhanced locomotory activity induced by baculovirus Ryuhei Kakusho, Toru Shimada, Susumu Katsuma
PS5TH185	Host range of new <i>Bacillus thuringiensis</i> pest biocontrol agents from Kyrgyzstan Tinatin Doolotkeldieva
PS5TH186	Cooperation between two receptors for phagocytosis in defense against bacterial infection in <i>Drosophila melanogaster</i> Akiko Shiratsuchi, Yoshinobu Nakamichi
PS5TH187	Ribosomal RNA degradation during abortive nucleopolyhedrovirus infection of BM-N cells derived from the silkworm, <i>Bombyx mori</i> Rina Hamajima, Yuya Ito, Michihito Kobayashi, Moroko Ikeda
PS5TH188	Pathological characteristics of <i>Lymantria dispar</i> Nucleopolyhedroviruses isolated from diseased larvae collected in Japan Tomoya Sano, Ayako Hirata, Moroko Nakai, Yasuhisa Kunimi
PS5TH189	Molecular responses of non-permissive cell lines to inoculation with <i>Adoxophyes nucleopolyhedroviruses</i> (Baculoviridae) Yasumasa Saito, Yasuhisa Kunimi, Moroko Nakai
PS5TH190	Regulation of <i>Bombyx mori</i> initiator caspase Dronc by Hycu-IAP3 of <i>Hyphantria cunea</i> nucleopolyhedrovirus Moroko Ikeda, Ikue Suganuma, Michihito Kobayashi
PS5TH191	Regional expression of the putative virus receptor, nsd-2, and the virus, BmDNV-2 in the midgut Katsuhiko Ito, Sachiko Shimura, Keiko Kodono-Okuda
PS5TH192	Molecular dissection of <i>Bombyx mori</i> nucleopolyhedrovirus cg30 Genki Ishihara, Toru Shimada, Susumu Katsuma
PS5TH193	Coexistence of full-length and truncated versions of ecdysteroid UDP-glucosyltransferase gene in the <i>Antheraea pernyi</i> nucleopolyhedrovirus isolated from <i>Samia cynthia ricini</i> Kunl Sasaki, Yuan-yao Huang, Mei-ling Shi, Xue-jing Wang, Jun Kobayashi
PS5TH194	Clonal variation in the <i>Helicoverpa armigera</i> insect cell population Sudawan Chaeychamsri, Win Chaeychamsri
PS5TH195	Isolation and characterization of entomopathogenic fungi isolated from wild mosquito Minehiro Ishii, Junya Takeshita, Mitsugu Nishiyama, Shinya Fukumoto, Hirotsuka Karioka, Masanori Koike, Daigo Aizuchi
PS5TH196	The large pine weevil (<i>Hylobius abietis</i>) as a vector of saprophytic fungi Ivar Silval, Tika Drenkhan

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PS5TH197	Genome and transcriptome-wide analysis of the immune-related genes in the brown planthopper <i>Nilaparvata lugens</i> Yan-Yuan Bao, Dong Zhao, Li-Ba Chen, Hong-Yuan Jin, Liang-Min Xu, Chuan-Xi Zhang
PS5TH198	Identification of a new <i>Bombyx mori</i> nucleopolyhedrovirus strains and analysis of its bro gene family Jiapeng Xu, Jingbo Zhou
PS5TH199	Isolation of <i>Bacillus thuringiensis</i> from forest environments in Korea Dae-Weon Lee
PS5TH200	Migrations and multiplications of three kinds of pine wood nematodes in <i>Pinus thunbergii</i> Jaung A Seon, Yilseung Moon, Chen Sik Jung, Chul-Su Kim
PS5TH201	High-throughput expression of recombinant protein using baculovirus Jae Yeung Choi, Yang-Su Kim, Yong Wang, Xue Ying Tao, Qin Liu, Jang Yul Roh, Soo Dong Woo, Byung Rae Jin, Yeon Ho Je
PS5TH202	Molecular characterization of a <i>Bacillus thuringiensis</i> serovar mogi (flagellar serotype 3a3b3d) with mosquitocidal activity Qin Liu, Jong Yul Roh, Jae Young Choi, Yong Wang, Xue Ying Tao, Joo Hyun Lee, Sang Eun Kim, Zhenli Fu, Jae Su Kim, Yeon Ho Je
PS5TH203	Functional characterization of <i>Autographa californica</i> multiple nucleopolyhedrovirus ORF43 Xue Ying Tao, Jae Young Choi, Yong Wang, Jong Yul Roh, Joo Hyun Lee, Qin Liu, Jong Bin Park, Jae Su Kim, Soo Dong Woo, Byung Rae Jin, Yeon Ho Je
PS5TH204	Novel baculovirus expression vector enabling simple purification of recombinant protein using polyhedrin fusion Jong Yul Roh, Jae Young Choi, Jaong Nam Kang, Yong Wang, Hee Jin Shim, Qin Liu, Xue Ying Tao, Hong Guang Xu, Soo Dong Woo, Byung Rae Jin, Yeon Ho Je
PS5TH205	Cloning of circular DNAs from microorganisms using a novel plasmid capture system Jong Yul Roh, Yong Wang, Qin Liu, Xue Ying Tao, Jae Young Choi, Hee Jin Shim, Hong Guang Xu, Soo Dong Woo, Byung Rae Jin, Yeon Ho Je
PS5TH206	A Novel, highly effective and environmentally friendly recombinant baculovirus insecticide, <i>NeuroBactrus</i> Hee Jin Shim, Jae Young Choi, Yong Wang, Xue Ying Tao, Qin Liu, Jang Yul Roh, Jae Su Kim, Soo Dong Woo, Byung Rae Jin, Yeon Ho Je
PS5TH207	Incidence of entomopathogenic fungi from agricultural and forest areas and their pathogenicity in <i>Bactrocera cucurbitae</i> (Coquillett) (Diptera: Tephritidae) in Southern Thailand Narit Thaochan, Anurith Chinalarjyawong
PS5TH208	Real-time tracing of AcMNPV infection to <i>Plutella xylostella</i> and the interaction between virus and parasitoid Shir-Jen Tsuan, Yu-Chan Chao, Roger F. Hou
PS5TH209	Synergistic interaction of <i>Beauveria bassiana</i> and <i>Bacillus thuringiensis</i> for the control of tomato fruitworm <i>Helicoverpa armigera</i> Mirza Abdul Qayyum, Waqas Waqif, Usman Ghazanfar, Yang Jung Kwan
PS5TH210	Entomopathogenic fungi: An alternative in the control of the Asian citrus psyllid, <i>Diuraphis citri</i> Kuwayama (Hemiptera: Psyllidae)? Hana Hajji Allahverdi Pour
PS5TH211	Antimicrobial and antioxidant activity in liquid culture filtrates of entomopathogenic fungi Tae Young Shin, Won Woo Lee, Jae Bang Choi, Sung Min Bae, Yeon Ho Je, Byung Rae Jin, Soo Dong Woo
PS5TH212	Genomic sequence analysis of the <i>Hyphantria cunea</i> granulovirus isolated in Korea Jae Bang Choi, Won Il Heo, Sung Min Bae, Tae Young Shin, Yeon Ho Je, Byung Rae Jin, Soo Dong Woo
PS5TH213	Genetic expression characteristics of other nematodes cellulase-related genes except for <i>Bursaphelenchus xylophilus</i> Dahyun Moon, Yilseung Moon, Hyerin Han, Chansik Jung, Chulsu Kim
PS5TH214	Sequence analysis and characterization of adaptor protein MyD88 from a coleopteran beetle, <i>Tenebrio molitor</i> Hangray Hawrelia Patnalk, Bharat Bhushan Patnalk, Dong Hyun Kim, Seongmin Kang, Yong Seok Lee, Bok-Leul Lee, Nam Jeong Kim, Yeon soo Han
PS5TH215	Cloning and expression pattern of a galectin homologue from a coleopteran insect, <i>Tenebrio molitor</i> Hyo Jeong Lee, Gi Won Seo, Jeong Hwan Seong, Dong Hyun Kim, Seongmin Kang, Yong Hun Jo, Yong Seok Lee, Bok-Leul Lee, Nam Jeong Kim, Yeon soo Han
PS5TH216	Cloning and in silico analysis of spatze 7 homologue from a coleopteran insect, <i>Tenebrio molitor</i> Soeom Kim, Dong Hyun Kim, Yong Seok Lee, Bok-Leul Lee, Nam Jeong Kim, Yeon soo Han
PS5TH217	Identification and partial characterization of PGRP-LE homologue from a coleopteran insect, <i>Tenebrio molitor</i> Seul-Gil Mun, Dong Hyun Kim, Yong Seok Lee, Bok-Leul Lee, Nam Jeong Kim, Yeon soo Han

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- PS5TH218 Overexpression and purification of the recombinant serralyisin-like metalloproteases in *Escherichia coli*
Kosuke Kawano, Kazuhiko Iiyama, Joe Man Lee, Takahiro Kusakabe, Chisa Yasunaga-Aoki, Susumu Shimizu
- PS5TH219 Virulence of the protein secretion system- deficient mutants of *Pseudomonas aeruginosa* to the silkworm, *Bombyx mori*
Masahiro Otao, Kazuhiko Iiyama, Joe Man Lee, Takahiro Kusakabe, Chisa Yasunaga-Aoki, Susumu Shimizu
- PS5TH220 Interaction of *Xenorhabdus nematophila* with *Bacillus thuringiensis* HD-73 against Bt-resistant *Plutella xylostella*
Qinying Wang, Yunyan Yang
- PS5TH221 The effect of entomopathogenic fungi, *Beauveria bassiana* (Balsamo) Vuillemin and *Lecanicillium muscarium* (Zimmerm.) Zare & W. Gams (Hyphomycetes: Moniliales), on mortality rate of cotton whitefly nymph
Ahmed Baghdadi, Kimia Kouhestani

Section 6 Medical Entomology

August 23-24 (Thu-Fri)

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PS6TH222	COI gene information of medicinal insect <i>Catharsius molossus</i> Cheng-Ye Wang, Ying Feng
PS6TH223	Seasonal monitoring of dengue infection in <i>Aedes aegypti</i> and serological feature of patients with suspected dengue in 4 central provinces, Thailand Jakkrawarn Champoonri, Usavadee Thavara, Apiwat Tawatsin, Surapee Anantapreecha, Padet Siriyasatien
PS6TH224	High throughput transcriptomic analysis to identify <i>Ixodes ricinus</i> ticks factors involved in <i>Bartonella henselae</i> transmission Xiang Ye Liu, Martine Cote, Muriel Voyssier-Taussat, Sarah Irene Bonnet
PS6TH225	VectorMap: Leveraging spatial data on agents of febrile vector-borne infections in support of disease risk assessments Desmond Foley, Richard Wilkerson, Lewis S. Long, Jason Richardson, Leopoldo Rueda
PS6TH226	Feeding efficiency of Odonate species and <i>Poecilla reticulata</i> against 3 mosquitoes species in Malaysia Siti Nurhafizah Saleez Ramlee
PS6TH227	Role of the conserved BBA68-BBA73 operon in the life cycle of Lyme spirocheta, <i>Borrelia burgdorferi</i> Xuechao Zheng, Hailun Xu
PS6TH228	The first molecular identification of <i>Borrelia</i> spp. in <i>Rhipicephalus sanguineus</i> (Acari: Ixodidae) from domestic dogs in Taiwan Chin-Gi Huang, Chi-Chun Fang, Lu Yun, Kun-Hsien Tsaï, Wen-Jer Wu
PS6TH229	<i>Penicillium tungiense</i> and <i>Rickettsia felis</i> in cat fleas in the Democratic Republic of Sao Tome and Principe, West Africa Kun-Hsien Tsaï, Chi-Tai Fang, Chin-Gi Huang, Lu Yun, Jih-Chin Lien, Wen-Jer Wu
PS6TH230	New approaches to physical mapping of mosquito genomes Maria V. Sharakhova, Vladimir A. Timoshevskiy, Becky S. deBruyn, David W. Severson, Igor V. Sharakhov
PS6TH231	Insecticide resistance in bed bugs in Thailand and laboratory evaluation of insecticides for the control of <i>Cimex hemipterus</i> and <i>Cimex lectularius</i> (Hemiptera: Cimicidae) Apiwat Tawatsin, Usavadee Thavara, Jakkrawarn Champoonri, Yuthana Phusap, Nissarat Jorjant, Chavada Khumsawade, Payu Bhakdeenuan, Pathom Sawapanyalert, Preecha Asavadachanukorn, Mir S. Mulla, Padet Siriyasatien, Mustapha Debbaoui
PS6TH232	Morphological and molecular phylogenetic studies on a novel anopheline species collected in Kushiro wetland, northern Japan Naomichi Imanishi, Kenji Takai, Kyeong Soan Kim, Yoshio Tsuda, Mutsuo Kobayashi, Kyo Itoyama, Miyoko Sawabe
PS6TH233	Silkworms in National Bio-Resource Project (NBRP) of Japan Yutaka Banno, Toru Shimada, Zenta Kajima, Hidaki Sazutsu, Hideaki Maekawa
PS6TH234	Odor-based contagious transmission of pathogen by <i>Drosophila melanogaster</i> Kiyoshi Okada, Hiroaki Kamuka
PS6TH235	Distribution of biting midges <i>Leptoconops spinosifrons</i> (Carter) (Diptera: Ceratopogonidae) in Thailand and field efficacy of herbal repellent against <i>L. spinosifrons</i> Usavadee Thavara, Apiwat Tawatsin, Jakkrawarn Champoonri, Samichai Saengkitporn, Preecha Asavadachanukorn, Padet Siriyasatien, Anuratt Trepparat, Mir S. Mulla
PS6TH236	Comparative detection of chikungunya and dengue virus in <i>Aedes albopictus</i> Skuse collected from Surat Thani province, Thailand by multiplex real-time RT-PCR and conventional RT-PCR Usavadee Thavara, Apiwat Tawatsin, Jakkrawarn Champoonri, Surapee Anantapreecha, Atchara Phumee, Veerayuth Kietichai, Padet Siriyasatien
PS6TH237	Molecular identification of forensically important fresh flies (Diptera: Sarcophagidae) in Thailand by using the second internal transcribed spacer (ITS2) gene Payu Bhakdeenuan, Kanek Preatmatanyau, Sunthal Payungporn, Usavadee Thavara, Apiwat Tawatsin, Kam Sukontason, Kakkaw L. Sukontason, Wej Choochote, Padet Siriyasatien
PS6TH238	The bacterial and fungal flora associated with digestive system of <i>Blattella germanica</i> L. collected in spring and autumn from dormitories and dwellings in Mashhad, Iran Gholamhossein Moraveji, Mahboobeh Naderi Nasseh, Sahar Chitzaei

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- PS6TH239** Chromosomal evolution in *Anopheles* mosquitoes
Ali Xia, Maria Sharakhova, Scotland Leman, Zhijian Tu, Igor Sharakhov
- PS6TH240** Efficacy of lethal ovitraps against *Aedes aegypti* (L.) and *Aedes albopictus* Skuse (Diptera: Culicidae)
Apiwat Tawatsin, Usavadee Thavorn, Yuthana Phusup, Jakkaworn Champoon, Somchai Saengkiorn, Prapai Wangsankamjan, Somchit Numsakul, Nalinphat Sakityasunthorn, Padee Siriyasatien
- PS6TH241** Insecticidal efficacy of plant extracts against common bed bug *Cimex lectularius* L. (Hemiptera: Cimicidae)
Apiwat Tawatsin, Usavadee Thavorn, Yuthana Phusup, Jakkaworn Champoon, Somchai Saengkiorn, Prapai Wangsankamjan, Somchit Numsakul, Nalinphat Sakityasunthorn, Padee Siriyasatien
- PS6TH242** Functional analysis of Wnt signaling pathway in the regulation of mosquito vitellogenesis
Shin-Hang Shiao
- PS6TH243** *Metarhizium anisopliae* as a potential biopesticide for the brown-banded cockroach, *Supella longipalpa* (Blattaria: Blattellidae)
Yi-Ting Ni, Li-Cheng Tang
- PS6TH244** Breeding sites of main Bluetongue virus vectors in Belgian cowshed
Jean-Yves Zimmer, Claude Saegerman, Bertrand Loison, Eric Haubruge, Frederic Francis
- PS6TH245** Laboratory evaluation of efficacy of *Bacillus thuringiensis* Crude toxin (Bt.Ct) and Bt.Ct synthesized silver nanoparticles (Bt.Ct-AgNPs) against human vector mosquitoes
Asanmoohamed Najlha Banu, Chellah Balasubramanian, Puthamochan Vinayaga Moorthy, Thangavel Kubendran
- PS6TH246** A long-term pattern of prevalence of dragged ticks captured in the Korean Peninsula from 2001 to 2010
Baek Jun Kim, Sungin Ki, Jun-gu Kang, Heung Chul Kim, Sung Tae Chong, Terry Allen Klein, Joen Seok Chae
- PS6TH247** Repellent efficacy and safety evaluation of IR3535 derivative against *Aedes albopictus*, *Culex pipiens* pollens and *Aedes togoi*
Sung Jin Park, Mi Hae Yu, Ji Eun Kim, Min Ju Park, In Seon Lee, Jihoon Lee, Jinho Lee, Baek Hwan Kim, Dong Kyu Lee, Sam Pin Lee
- PS6TH248** Influence of antimicrobial peptides over-expressed in damaged gut cells of *Drosophila melanogaster*
Eun-Young Yun, Young-Il Yoon, Jae Sam Hwang, Tae-Won Goo, Eun-Young Kwon, Jeongmi Yoo
- PS6TH249** Allergenicity of recombinant alpha-amylase from German cockroach
Kyoung Yang Jeang, Jung-Won Park, Tai-Soon Yong
- PS6TH250** Carbamate insecticides bioassays and resistance monitoring in field strains of adult German cockroach, *Blattella germanica* (L.), from southern Iran
Mohammad Reza Fakoorziba, Mohammad Djaefar Moemenbeik-Fard, Mohsen Mohrbab-Nadezh, Kourosh Azizi
- PS6TH251** Scabies disease prevalence and social factors affecting referrals to health centers in Hamadan and Kermanshah provinces during the years 2006 -2011
Mansour Nazari
- PS6TH252** Abundance and dominance of sand fly species (Diptera: Psychodidae: Phlebotominae) in Zahedan County, Sistan - Baluchistan Province, Southeastern Iran
Hamid Kassiri, Ezzat-Aldin Javadan
- PS6TH253** Cockroaches (*Periplaneta americana* (L.), Dictyoptera: Blattellidae) as carriers of bacterial pathogens, Khorramshahr County, Southwestern Iran
Hamid Kassiri, Shahriar Kazemi
- PS6TH254** Data on sand fly fauna (Diptera, Psychodidae, Phlebotominae) in Khash County, Sistan - Baluchistan Province, Southeastern Iran
Hamid Kassiri, Ezzat-Aldin Javadan
- PS6TH255** American cockroaches (*Periplaneta americana* (L.), Dictyoptera, Blattellidae) as potential vectors of nosocomial infections, Ahwaz City, Khuzistan Province, Southwestern Iran
Hamid Kassiri, Anwar Ghaderi, Mahmood-Reza Sepand
- PS6TH256** A survey on species of isolated bacterial agents from american cockroaches (*Periplaneta americana*) in residential areas of Ahwaz City, Khuzistan Province, Southwestern Iran
Hamid Kassiri, Anwar Ghaderi, Mahmood-Reza Sepand
- PS6TH257** An epidemiological study of *Pediculus capitis* infestation in the Cases of Attending to the Azna Health Centers, Lorestan Province, Western Iran
Hamid Kassiri, Hamid Anvari
- PS6TH258** Epidemiological and clinical characteristics of scorpion sting in Bagh-e-Malek County, Khuzistan province, Southwestern Iran
Hamid Kassiri, Ali Talmor

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PS6TH259	Insecticidal activity of <i>Moringa oleifera</i> seed extract against a dengue vector, <i>Aedes aegypti</i> L. (Diptera: Culicidae) in Faisalabad, Pakistan Muhammad Ashfaq, Waqas Wakil, Umair Ashfaq
PS6TH260	Contact and fumigant toxicity of <i>Pinus densiflora</i> needle hydrodistillate constituents and related compounds and efficacy of spray formulations containing the oil to <i>Dermatophagoides farinae</i> Ju-Hee Lee, Jun-Ran Kim, Young Yul Koh, Young-Joon Ahn
PS6TH261	Fumigant Toxicity of plant essential oils against <i>Camptomyia corticalis</i> (Diptera: Cecidomyiidae) Jun-Ran Kim, Penumbammy Haribalan, Bang-Ki Son, Young-Joon Ahn
PS6TH262	Transovarial transmission of <i>Orientia tsutsugamushi</i> in <i>Leptotrombidium palpalis</i> (Acari: Trombiculidae) Eun Hee Shin, Jong Yul Roh, Wan Il Park, Bong Gu Song, Chan Park, Mi-yeoun Park, E-hyun Shin
PS6TH263	Seasonal distribution of chigger mites surveillance using new chigger mite collecting traps in Korea (2010–2011) Wan Il Park, Jong Yul Roh, Eun Hee Shin, Bong Gu Song, Chan Park, Mi-yeoun Park, Jin Suk Han, Hyeon Joo Lee, E-hyun Shin
PS6TH264	Insecticide resistance monitoring in the principal Japanese encephalitis vector, <i>Culex tritaeniorhynchus</i> using bioassay and biochemical assays Hyun Kyung Kim, Dae Hyun Yoo, Seong Yoon Kim, E. Hyun Shin, Mi Yeoun Park, Kyu Sik Chang, Young Joon Ahn, Dong-Kyu Lee
PS6TH265	Population density and <i>Plasmodium vivax</i> infection rates of <i>Anopheles</i> mosquitoes in the malaria epidemic areas, Incheon-si, Gyeonggi-do and Gangwon-do, in the Korea Tae Joon Lee, Sun Joe Bang, Myung-Deok Kim, E. Hyun Shin, Kyu Sik Chang
PS6TH266	Tissue-specific promoter for the development of transgenic silkworm, <i>Bombyx mori</i> Seung-Won Park, Tae-Won Goo, Seong-Ryul Kim, Seok-Woo Kang, Gwang-Ho Choi
PS6TH267	Functional genomics of yellow-g and yellow-g2 of the asian tiger mosquito, <i>Aedes albopictus</i> Sung Hyun Kim, Mi Young Noh, Yeon Soo Han, Yuzuyuki Arakane
PS6TH268	Predation and control efficacies of <i>Misgurnus mizolepis</i> (Cypriniformes: Cobitidae) toward <i>Culex pipiens molestus</i> (Diptera: Culicidae) and fish toxicity of temphos in laboratory and septic tank conditions Sung Chun Chae, Young Hyun Kwon, Kyung Il Min, Hyung Soo Kim, Nam-Jin Kim, Jun-Ran Kim, Bang Ki Son, Young-Joon Ahn
PS6TH269	Molecular detection of tick-borne pathogens in ixodid ticks from Pakistan Zafar Iqbal, Nabanita Mukherjee, Steven Adamson, Zia-ud-Din Sindhu, Shafiq Ullah, Anjo Abdulkali, Dmitry Apanskievich, Shahid Karim
PS6TH270	Evaluation of two storage mites life tables on dried oyster mushroom and their harmful effects at different constant temperatures Nerlin Ahmed, Mo Wang
PS6TH271	Predictors of dengue fever and dengue haemorrhagic fever in Punjab, Pakistan Saleem Muhammad Rana, Asma Abdul Latif, Tanveer Akhtar
PS6TH272	Daily survival, anthropophily and the role of major <i>Anopheline</i> vectors in malaria transmission in South west Nigeria Kolade Tahiru Ibrahim, Tonya Grace Okorie
PS6TH273	The effect of oxidative stress on the DDT insecticide resistance phenotype and life history of the major Malaria vector <i>Anopheles arabiensis</i> Shuane Oliver, Basil Brooke
PS6TH274	Effect of Mohlolo bait on age-related <i>Blattella germanica</i> population levels Clarah Mbowane, Maboko Samuel Mphosi, Phatu William Phatu
PS6TH275	Field evaluation of BG-Sentinel and BG-Mosquitito traps for filarial vector <i>Aedes polynesiensis</i> in French Polynesia Limb Hapalairai, Hayley Joseph, Michel Cheong Sang, Wayne Melrose, Scott Ritchie, Tom Burkat, Steven Sinkins, Herve Bossin
PS6TH276	Entomological characteristics after five years of malaria control on Bioko Island, Equatorial Guinea Hans Jørgen Overgaard, Yamsi P. Reddy, Simon Abaga, Abraham Masias, Michael R. Reddy, Vaní Kulkarni, Christopher Schwabe, Luis Segura, Jemmo Kleinschmidt, Michel A. Slotman
PS6TH277	Natural product of Yartsa Gumba an entomo-fungal complex of Indian Himalayas Shahid Sami Siddique
PS6TH278	Field efficacy of peridomestic insecticide space spraying against two <i>Aedes</i> populations in Tahiti, French Polynesia Herve C. Bossin, Charles Jeannin, Jerome Marie, Stephanie Loncke
PS6TH279	Prey preference of aquatic insects: Implications in regulation of wetland mosquitoes Nabaneeta Saha, Gautam Aditya, Gautam Saha
PS6TH280	Insecticide resistance in <i>An. arabiensis</i> from Sudan: Temporal trends and underlying mechanisms. Hiba Abdalla, Elizabeth Koekemoer, Craig Wilding, Hilary Ranson, Maureen Coetzee

Section 7 Others

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PS7TH281	Contact toxicity of <i>Lavandula angustifolia</i> Mill and <i>Zataria multiflora</i> Boiss essential oils against <i>Callosobruchus maculatus</i> adults (Coleoptera: Bruchidae) Gholamhossein Moravvej, Zahra Gholizadeh Khatami, Ayegor Heydari-Esfahani
PS7TH282	The first report of the aphid <i>Cinara pini</i> from Iran and study on its morphology and biology Gholamhossein Moravvej, Javad Khorrami, Amirhossein Asgari
PS7TH283	Molecular mechanisms of insect diapause: Supplementing alanine enhances cold tolerance in non-diapause <i>Calliphora vicina</i> larvae Paul Christopher Coleman, Jeffery S. Hale, Scott A. L. Haynes
PS7TH284	Effect of essential oils formulation against <i>Plutella xylostella</i> L. Purwatingsih N. Purwatingsih, Nuri Hualita, Elan Elan
PS7TH285	Thermal tolerance, acclimation responses and voluntary running performance of meat ants (<i>Iridomyrmex purpureus</i>): Implications of climate change on common species Nigel Andrew, Robert Hart, Myung-Pyo Jung, John Van Buren
PS7TH286	Does size matter? Insights from the life history traits of dengue vectors in Kolkata, India Soumyajit Banerjee, Gautam Acharjee, Gautam Kumar Saha
PS7TH287	Managing Potato virus Y (Potyviridae): The role of aphid (Aphididae: Hemiptera) olfaction in identifying potential crop border plants Michelle Louise Schrader, Robert Gifford, John Winters, Shikun Tang, Katerina Prange
PS7TH288	Characterization of resistant factors in faba bean (<i>Vicia faba</i> L.) cultivars against cowpea aphid (<i>Aphis craccivora</i> Kosch.) using Electrical Penetration Graph (DC-EPG) Alan Soffian, Saleem Safer Alghamdi, Abdulrahman Saad Alghamdi
PS7TH289	Study of life history of <i>Hemitelesius indicus</i> (Acari: Otopheidomenidae) parasitic on <i>Dysdercus koenigii</i> (Hemiptera: Pyrrhocoridae) in Kolkata, India Paulami Sarangi, Saty Kumar Gupta, Gautam Kumar Saha
PS7TH290	Effects of gibberellic acid on hemolymph antioxidant enzymes of <i>Galleria mellonella</i> L. (Lepidoptera: Pyralidae) Sumeyra Nur Samet, Hülya Altunbaş, Salime Güler
PS7TH291	Novel interactions of a cypovirus in the <i>Heliothis virescens</i> and <i>Campoplex sonorensis</i> host-parasitoid system Juliane Deacotis, Philip Houtz, Bruce A. Weiss
PS7TH292	The preservation of extracted insects from Lower Eocene Indian amber Nina Mazur, Jes Rust
PS7TH293	The butterfly diversity of Huoditang, Qinling Mountain in China Yanru Zhang
PS7TH294	Rapid molecular identification of Encyrtid and Aphelinid parasitoids of soft scales (Hemiptera: Coccidae) in Californian citrus orchards using taxon-specific multiplex PCR Paul Rugman-Jones, Lisa Foster, Kaitlyn Cook, Joseph Maher, Richard Southgate
PS7TH295	The action mode of the nitroconjugated neonicotinoids with -NO ₂ or -CN group in cis-configuration Habo Bao, Qian Cheng, Jing Yao, Minwei Li, Zewen Liu
PS7TH296	Laboratory production of green lacewings, <i>Plesiochrysa ramburi</i> (Schneider) (Neuroptera: Chrysopidae) for augmentative biocontrol of the mealybug complex in cassava plantations Charida Sattayawong, Sirwan Turkkanerany, Phengsakul Sukanak, Boonwut Desakulchai, Minan Sudasakul
PS7TH297	Biology of <i>Bracon hebetor</i> Say (Hymenoptera: Braconidae) and its potential in population suppression of the black-headed caterpillar, <i>Opisina arenosella</i> Walker (Lepidoptera: Oecophoridae) Whar Suasaard, Nampheeng Chueaphanaka, Supas Dierphuch, Paveong Ruachana, Rattat Chueaphan
PS7TH298	RNAi target validation of juvenile hormone related genes for developing novel insect growth regulators in the brown planthopper, <i>Nilaparvata lugens</i> Takumi Koyukawa, Chieko Okada, Takashi Tashiro, Katsuhiko Sugawara, Kenichi Morimoto, Hiroaki Ikeda, Tetsuro Shinoda
PS7TH299	Spider mite response in citrus rootstocks is mediated by the oxylipin pathway Blai Agust, Josep Anton Jorda, Monica Hernandez-Moreno Pons

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PS7TH300	Claiming the crown by primary queen and king after nuptial flight in orphaned conspecific colony <i>Xing Ping Hu, Wei Ding, Michael Lenz, Chong-Yang Lee</i>
PS7TH301	Effect of pollen quality on biological control of <i>Tetranychus urticae</i> in citrus <i>Tatiana Pina, Poiane Sa Argolo, Alberto Urbaneja, Josep Anton Jocas</i>
PS7TH302	Effect of nutrient and pre-infested brinjal plants, <i>Solanum melongena</i> on the population and interaction between whitefly and competitor pest in a multitrophic System <i>Mohd Rasdi Zaini, Chesalmoh Md Rami, Abu Hassan Ahmad</i>
PS7TH303	Effect of imidacloprid and fipronil pesticide application on <i>Sympetrum infuscatum</i> (libellulidae: Odonata) larvae and adults <i>Hiroshi Jinggaji, Dang Quoc Thuyet, Tetsuyuki Ueda, Hirozumi Watanabe</i>
PS7TH304	Embryogenesis of tracheal gills in <i>Dineutus mellyi</i> (Coleoptera, Gyrinidae): Their subcoxal origin <i>Shintaro Komatsu, Yukimasa Kobayashi</i>
PS7TH305	Quarantine Insect Species in the Russian Federation <i>Margarita Bush, Julia Levstova</i>
PS7TH306	Remipedia ovarian characters support affinity of Crustacea and Hexapoda <i>Mariusz K. Jaglarz, Janusz Kubelekiewicz, Thomas M. Nifle, Stefan Roenemann, Szczepan M. Bilinski</i>
PS7TH307	Progress on chemical utilization of cochineal insect <i>Hua Zheng, Hong Zhang, Yiyi Ma, Yuanheng Guo, Jinyan Hu, Hong Zhao</i>
PS7TH308	Diurnal locomotion and feeding behaviors of rice-ear bugs measured by electrical penetration graph and video camera <i>Yusuke Suzuki, Masatoshi Hori</i>
PS7TH309	Feeding and ovipositional behaviors of <i>Liriomyza huidobrensis</i> under lights of different wavelength <i>Mitsunari Sato, Kazuki Shibuya, Masatoshi Hori</i>
PS7TH310	Application of microsatellite markers for strain identification in sterile insect techniques: <i>Bactrocera dorsalis</i> (Diptera: Tephritidae) <i>Sriwan Isasawin, Nidchaya Aketarawong, Sujinda Thanaphum</i>
PS7TH311	Structure of the female reproductive system in viviparous earwigs <i>Wacław Twarzycza, Agnieszka Lechowska-Liscka, Petr Kocarek, Szczepan M. Bilinski</i>
PS7TH312	Oogenesis in a parasitic earwig <i>Arixenia esau</i> <i>Wacław Twarzycza, Agnieszka Lechowska-Liscka, Petr Kocarek, Szczepan M. Bilinski</i>
PS7TH313	Study on the correlation between the diversity of owl wing shape and geographical distribution <i>Hui Wen, Rui Liu, Li Xin Wang</i>
PS7TH314	Exploration and characterization of genes involved in the diterpene synthetic pathway for defensive secretion in nasute termite soldiers <i>Masaru Hojo, Ryohei Maekawa, Seikoh Saitoh, Shuji Shigenobu, Toru Miura, Yoshinobu Hayashi, Gaku Tokuda, Hideaki Maekawa</i>
PS7TH315	Evaluation of modified trunk injection method for controlling <i>Quadrastichus erythrinae</i> in Taiwan <i>Ting-Shuo Wang, Gene-Sheng Tung, En-Cheng Yang</i>
PS7TH316	Vitellogenin cDNA Gene of Giant Water Bug (<i>Lethocerus indicus</i>) <i>Wijit Wilsonam, Lertluk Ngemsiri</i>
PS7TH317	Offical Selling biological control to farmers in the Upper Midwest of the USA <i>Kelley Tilman</i>
PS7TH318	Males fighting after queen removal in <i>Chartergellus communis</i> (Hymenoptera, Vespidae) <i>Laura Chavarria, Fernando Noll</i>
PS7TH319	Reproduction level of intracytoplasmic parasitic double-strand RNA found in a Camponotus ant is related to host reproductivity <i>Satoshi Koyama, Toshiyuki Satah</i>
PS7TH320	The effect of ATM, MRE11, RAD50, NBS1, Ku70 and Ku80 knockdown on DNA repair pathways in cultured silkworm cells <i>Mie Fujii, Hiroaki Mori, Masateru Takahashi, Hitoshi Mitsunobu, Joe Man Lee, Takahiro Kusakabe</i>
PS7TH321	Microbial community associated with the red palm weevil, <i>Rhynchophorus ferrugineus</i> <i>Bessem Chouaia, Matteo Montagna, Giuseppe Mazza, Sara Epis, Elena Crosti, Erica Pradocini, Wioletta Vaccini, Daniele Daffonchio, Rita Cervo, Claudio Bandi</i>
PS7TH322	School of Ants: Using global citizen scientist data to map urban biodiversity patterns <i>Andrea Lucky, Robert Dunn</i>

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- P57TH323** The Integrated Insect Database System of NIAES (the National Institute for Agro-Environmental Sciences, Tsukuba, Japan)
Yukinobu Nakatani, Hiroaki Yoshitake, Shii-ichi Yoshimoto
- P57TH324** Orthology prediction in a large-scale transcriptome project
Malte Petersen, Karen Meusemann, Bernhard Minx, Oliver Niehuis
- P57TH325** *Chrysomya megacephala* (Fabricius) larvae: A novel bio-resource
Min Zhang, Chao Song, Guiren Zhang
- P57TH326** Tarsal gustatory sense in coleopteran insects
Shuhei Masuta, Rei Nakatsu, Naoshi Mitsuoka, Yutaka Kuriyama, Kazuhisa Mitsuoka, Masatoshi Hori
- P57TH327** Preparation of chitin and chitosan from the blowfly *Chrysomya megacephala*
Chao Song, Min Zhang, Guiren Zhang
- P57TH328** Laccase2 expression involved in the specific cuticular tanning during soldier differentiation of the termite *Reticulitermes speratus*.
Yudai Masuoka, Satoshi Miyazaki, Ryota Sasaki, Kiyoko Maekawa
- P57TH329** Invasion history of the oriental fruit fly, *Bactrocera dorsalis*, in the Pacific-Asia Region: Two main invasion routes
Xuanwu Wan, Yinghang Liu, Bin Zhang
- P57TH330** Genetic basis of hygienic behavior in *Apis mellifera* (Hymenoptera: Apidae): A candidate gene approach
Alejandra Scarnapiego, Constanza Merino, Mario Alejandro Poreno, Analía Martínez, Silvia Lanzavecchia, María Alejandra Palacios, Jorge Luis Cladera
- P57TH331** Progress on Lac research: the processing and utilization
Hong Zhang, Hua Zheng, Kai Li, Ruguo Zhang, Wenwen Zhang, Kun Li
- P57TH332** Reassembling the transcriptome of the whitefly *Bemisia tabaci* using Trinity
Yu-Jun Wang, Xiao-Wei Wang, Shu-Sheng Liu
- P57TH333** Study on genitalia of female cockroaches of different reproductive types
Yang Li, Yanli Che, Zongqing Wang
- P57TH334** Comparative genome analysis of Blattabacterium strains, a bacterial endosymbiont from omnivorous and xylophagous cockroaches and a termite
Yukihiro Kinjo, Seiko Saitoh, Akonori Yamada, Masaru Miya, Nathan Lo, Hirohumi Watanabe, Ian T. Paulsen, Liam E. Bourne, Gaku Tokuda
- P57TH335** Evolution and development of bacteriome symbiosis in the Nysius seed bugs
Yu Matsuura, Yoshitomo Kikuchi, Xian-Ying Meng, Ryusuke Koga, Takema Fukatsu
- P57TH336** Relative utility of arrhenotokous and Wolbachia-associated thelytokous *Odontosema anastrephae* figitid fruit fly parasitoids for mass rearing and biological control
Andrew Davies, Martin Alijo, John Sivinski
- P57TH337** The use appraisal of ant feeding module
Shu-Ping Chen, Li-Feng Chao, Chung-Chi Lin, Yi-Der Wen, Su-Hui Lai, Wei-Lung Wang
- P57TH338** First records of new host-parasitoid associations for invasive *Dryocossus kuriphius* and successful establishment of parasitoid *Torymus sinensis* in central Italy
Gabriele Rondani, Marco Valerio Rossi Staccini, Carlo Ricci, Ferdinando Bini, Roberto Rimoni, Gianrudine Salerno, Peter Janata, Eric Conti
- P57TH339** Development of artificial diets for rearing whitefly larvae (Hemiptera: Aleyrodidae)
Daisuke Takebayashi, Tsutomu Sakai, Yosuke Toganari
- P57TH340** Characterization and expression of recombinant alpha-glucosidase III in *Apis cerana indica*
Jrattitarn Kaeuwuangmoon, Chanpen Chanchan, Pookan Winayanawattikul, Aisara Kimura, Kiyoshi Kimura, Mikio Yoshiyama
- P57TH341** Antibacterial activity and chemical compositions of *Apis mellifera* propolis extracts from Nan province, Thailand
Pattaraporn Boonsat, Chanpen Chanchan, Preerha Phumprabhinjan
- P57TH342** Do the promotional campaigns of firefly watching activities in Taiwan include visitor rules?
Yang-Sheue Wei
- P57TH343** Verification of horizontal gene transfer (HGT) of movable element, mariner-like element (MLE), among various insects and spiders inhabiting the South-West Islands of Japan.
Kaori Yamada, Yuki Kawanishi, Seichiro Okumura, Haruka Iwasaki, Kenji Sasaki, Yumiko Nakajima, Hiroyuki Maekawa
- P57TH344** Feeding humans with edible insects: actual state and perspectives in Belgium and Europe
Ludovic Sablon, Alabi Taofik, Christophe Blecker, Eric Houbry, Frederic Francis

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PS7TH345	Using species distribution model to assess potential invasion risk of phytophagous pests - a case study of <i>Leptocybe invasa</i> in Taiwan Gene-Sheng Tung, Chia-Chun Hsu, Chia-Long Huang, Man-Miao Yang
PS7TH346	Optimization of fermentation conditions of mulberry wine by response surface methodology Chu-Yan Wang, Jun-Qiang Jia, Guo-Zheng Zhang, Xi-Jie Guo, Zhongzheng Gui
PS7TH347	Improved 1-Deoxynojirimycin (DNJ) production in mulberry leave fermented by microorganism Yun-Gang Jiang, Jun-Qiang Jia, Xiao-Ning Ma, Guo-Zheng Zhang, Xi-Jie Guo, Zhongzheng Gui
PS7TH348	Tandem repeat markers as novel diagnostic tools for high resolution fingerprinting of <i>Wolbachia</i> Markus Riegler, Inaki Iturbe-Gomara, Megan Woolfit, Wolfgang J. Miller, Scott L. O'Neill
PS7TH349	Study on the key technique of mass production of <i>Encarsia formosa</i> in greenhouse Fan Zhang, Yingmei Wang, Xiaojun Gao
PS7TH350	Improving production of toyocamycin in <i>Streptomyces</i> by metabolic engineering Zheng Ma, Xuping Shentu, Yalin Bian, Xiaoping Yu
PS7TH351	Overexpressed esterases in a fenvalerate resistant strain of the cotton bollworm, <i>Helicoverpa armigera</i> Shuwen Wu, Yihua Yang, Guorui Yuan, Peter M. Campbell, Mark G. Teece, Robyn J. Russell, John G. Oakeshott, Yidong Wu
PS7TH352	Spinosa resistance in the olive fly, <i>Bactrocera oleae</i> Maria Eleni Gregoriou, Efthymia Sagri, Evdokia G. Kokori, Klelia Salpea, Vaggelis Harakopos, Frank G. Zalom, Ioannis Ragoussis, Kostas D. Mathiopoulos
PS7TH353	Exploring miRNA-mRNA interactions of the honeybee embryonic development Flavia Cristina de Paula Freitas, Francis de Moraes Franco Nunes, Alexandre dos Santos Cristina, Zila Luz Paulino Simoes
PS7TH354	Who rules the colony? A case study in neotropical social wasps (Hymenoptera, Vespidae: Epiponini) Fernando Barbosa Noll, Carlos Alberto dos Santos
PS7TH355	Flower power? Effects of apple orchard groundcover management on arboreal spiders (Araneae) Viktor Marka, Balazs Keresztes
PS7TH356	First record of deer ked (<i>Lipoptena cervi</i> (Diptera, Hippoboscidae))-infestation on the red deer in Hansag Region (Hungary) Boris Egrí, Eszter Rigo
PS7TH357	Termination of expression of BmEP80 protein is responsible for the lethal egg of "Ming" mutant of the silkworm, <i>Bombyx mori</i> Qiaoling Zhao, Anli Chen, Peng Gao
PS7TH358	Insect imaging at ANKA: methods, recent developments and perspective Thomas van de Kamp, Tomy dos Santos Rola, Patrik Vagovic, Alexander Riedel, Tilo Baumbach
PS7TH359	Force balance in butterfly take-off Gaelle Bimberd, Dmitry Kolomenskiy, Richard Buxaphrey, Simon Walker, Jerome Casas, Romiro Godoy-Dona
PS7TH360	Bumblebee venom serine protease and serine protease inhibitor affect blood coagulation and fibrinolysis Young Moo Choo, Kwang Sik Lee, Hyung Joo Yoon, Yuling Qiu, Hu Won, Mi Ri Sohn, Hung Dae Sohn, Byung Rae Jin
PS7TH361	Bumblebee (<i>Bombus terrestris</i>) venom serine protease inhibitor acts as a plasmin inhibitor Yuling Qiu, Kwang Sik Lee, Hyung Joo Yoon, Byung Rae Jin
PS7TH362	Molecular characterization of a spider (<i>Araneus ventricosus</i>) major ampullate silk protein Kwang Sik Lee, Bo Yeon Kim, Dah Hoon Kim, Byung Rae Jin
PS7TH363	Which between acetylcholinesterase 1 and acetylcholinesterase 2 plays the major role in synaptic transmission in the Class Insecta? Young Ho Kim, Si Hyeock Lee
PS7TH364	Availability of sugar solutions for colony development of the European bumblebee, <i>Bombus terrestris</i> Hyung Joo Yoon, Kyeong Yang Lee, Mi Ae Kim, In Gyun Park
PS7TH365	A study on the development of functional cosmetics using silk-gland powder of silkworm Jeong-Woo Chon, Haeyang Kweon, You-Young Jo, Kang-Sun Rye, Heul-Sam Lee
PS7TH366	Effects of mulberry leaves as the supplements to weaning pig diet Jeong-woo Chon, Hye-Jin Kang, Hong-Lim Choi, Young-Chul Jung, Haeyang Kweon, You-Young Jo, Kang-Sun Rye, Heul-Sam Lee
PS7TH367	Factors of color variations of elytra of <i>Harmonia axyridis</i> (Coleoptera: Coccinellidae) Mi Ja Seo, Eun Jin Kang, Dae Hong Lee, Yong Man Yi, Young Nam Yoon

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- PS7TH368 Honeybee visiting and Nectar Characteristics on Two Species of Genus *Tilia* as a honey plant
Jingyu Han, Seohyun Kim, Moon-Sup Kim
- PS7TH369 Behavioral response of western flower thrips to visual and olfactory cues with Chrysanthemum
Yongseok Choi, Insoo Whang, JunSeok Lee, EunJae Han, Yunkyu Nam
- PS7TH370 Qualitative assessment of outbreak risk and consequences of introduction of *Bactrocera invadens* through export of fresh fruits of *Citrus sinensis* from Nigeria
Adebayo Amos Omoloye
- PS7TH371 Occurrence and abundance of the insect pests associated with *Amaranthus* species in Ibadan Southwest Nigeria
Ismaila Adeniran Aderolu, Amos Adebayo Omoloye
- PS7TH372 Screening and identification of resistance donor cultivar of *Amaranthus* sp. against *Hymenia recurvalis*
Ismaila Adeniran Aderolu, Amos Adebayo Omoloye
- PS7TH373 Effectiveness of four protectants against the weevil, *Balanogaster kolae* (Coleoptera: Curculionidae) on kolantus, *Cola nitida* in storage
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- PS7TH374 Effect of pollination by 3 species of pollinators, *Apis mellifera*, *Bombus terrestris*, *Osmia cornifrons* in the blueberry field
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- PS7TH375 An ecotoxicoproteomic approach (SELDI-TOF MS) to mixture toxicity of trace metals on eggs of mayfly, *Ephemera orientalis* (Ephemeroidea, Ephemeroptera)
Hyeon-ho Ma, Yongsun Kim, Myung-seob Kim, Yun-sik Lee, Sung-Eun Lee, Kye-W Shon, Kyoung Cho
- PS7TH376 Quantification and varietal variation of anthocyanin pigments, free sugars and fatty acids in mulberry fruits (*Morus alba* L.)
Hyun-bok Kim, Sun-Lim Kim, Gyo-hyung Sung
- PS7TH377 Effects of diamondback moth resistant transgenic cabbage (*Brassica oleracea*) on arthropod community structure
Young-Joong Kim, Ki Jung Nam, Soon-Chun Jeong, Chae-Huk Nam, Chang-Gu Kim
- PS7TH378 Fine structural analysis on the spinning nozzles for the viscid silks in the spider *Nephila clavata* (Araneae: Nephilidae)
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- PS7TH379 Microstructural analysis of the mouthparts in the bark beetle *Ips acuminatus*, and their implication as external carriers of pathogens
Myung-Jin Moon, Jang-Gu Park, Wan-Hy Choi
- PS7TH380 Two generations of the European corn borer in Slovakia
Ludovít Čagan, Miroslav Pernis, Andrea Čelovská
- PS7TH381 A novel mosquito feeding system for routine blood-feeding
Deng Lu, Kaou Sin Ying, Ping Ah Biah, Iky Lee Chen, Sri Gek Lam
- PS7TH382 Dispersal patterns of pine wilt disease at the newly infested areas
Yao Jeong Choo, Dong-Soo Kim, Yeong-Jin Chung, Young-Seuk Park
- PS7TH383 Comparative genomic analysis of the UDP-glycosyltransferase multigene family in insects
Seung-Joon Ahn, Helko Vogel, David Hecker
- PS7TH384 OCH-group (Odonata-Coleoptera-Hemiptera-group), the representative aquatic insect group in the Upo Wetland, Korea
Jun Shik Bae, Dong Gun Kim, Chu Young Hee, Jeong Mi Hwang
- PS7TH385 Studies on taxonomy, biology and pest status of Indian biotypes of *Acanthoscelides macrophthalmus* (Schaeffer) (Coleoptera: Bruchidae)
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- PS7TH386 Plant-based insect repellent: is that an appropriate strategy to malaria burden in Ethiopia
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- PS7TH387 Morphometrics and aspects of Bio-ecology of *Ephestia cautella* (Lepidoptera : Pyralidae) on stored date fruit (*Phoenix dactylifera*) and hermetic control technique
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- PS7TH388 Effects of gibberellic acid (GA3) on hemocyte numbers, morphology and mitotic indices of *Galleria mellonella* L. (Lepidoptera: Pyralidae)
Hülya Altunoglu, Feri Uçkan, Yavuz Kiliç, Ekrem Eğin

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PS7TH389	Determination of diazinon residues in grape and sour grape Khalil Talebi, Ehsan Torabi
PS7TH390	Larvicidal activity of essential oils from <i>Thymus kotschyanus</i> and <i>Mentha longifolia</i> against <i>Tribolium castaneum</i> Hoda Akrami, Saeid Mohammampour
PS7TH391	Population density of <i>Edwardsiana rosae</i> L. and <i>Ardis brunniventris</i> Hartig on different genotypes of <i>Rosa damascena</i> in West-Azarbaijan province, Iran Zohreh Nikoo, Hosseini Lotfollahzadeh, Ismail Alizadeh, Mohammadreza Zargaran
PS7TH392	Biological controllers of <i>Opsiphanes cassina</i> (Lepidopterous: Brassolidae) in plantations of African oil palm, Venezuela, South America Paula Beserra Maia
PS7TH393	Predatory efficiency of <i>Chrysoperla zastrowi sillemi</i> (Esben-Peterson) and <i>Cryptolaemus montrouzieri</i> Mulsant on <i>Paracoccus marginatus</i> and <i>Phenacoccus solenopsis</i> infesting Sunflower Mariappan Suganthi, Periyaswamy Sakthivel
PS7TH394	Classical biological control of papaya mealybug, <i>Paracoccus marginatus</i> (Williams and Granara de Willink) using <i>Acerophagus papayae</i> (Noyes and Schauf) in Tamil Nadu, India Periyaswamy Sakthivel, P Karuppusamy, Mariappan Suganthi, Thulasi Srinivasan
PS7TH395	Preliminary study of <i>Oligonychus afasiaticus</i> predators in Manoojan (south of Iran) Sadeq Farzan, Mina Khalilzadeh, Mahdieh Asadzadeh
PS7TH396	The report of some typical oriental water mites (Acari: Hydrachnidia) from another province in south of Iran (Manoojan) Saeid Arjmand, Iva Ettemadi, Mahdieh Asadi
PS7TH397	First report of the marine water mites <i>Pontarachna arabica</i> (Hydrachnidia: Pontarachnidae) from Iran Iva Ettemadi, Mahdieh Asadi, Malihe Latifi
PS7TH398	Acetylcholinesterase insertional mutations in insecticide-resistant populations of Colorado Potato Beetle, <i>Leptinotarsa decemlineata</i> (Say) Maryam Malekmohammadi, Mir Jalil Hejazi, Mohammad Saeed Massadegh, Hamid Galehdari, Mohammad Kharjani, Mohammad Taghi Goodarzi
PS7TH399	Acetylcholinesterase deletion mutations in insecticide-resistant populations of Colorado Potato Beetle, <i>Leptinotarsa decemlineata</i> (Say) Maryam Malekmohammadi, Mir Jalil Hejazi, Mohammad Saeed Massadegh, Hamid Galehdari, Mohammad Kharjani, Mohammad Taghi Goodarzi
PS7TH400	PGPR as biofertilizers: Their impacts on productivity of lentil and chickpea and population incidence of associated insect fauna Muhammad Dilvar Gogi, Muhammad Ashfaq, Muhammad Jalal Arif, Muhammad Irfan Ashraf, Rashad Rasool Khan, Muhammad Rafiq Shahid
PS7TH401	Investigations on development stages of <i>Lucilia caesar</i> Linne, 1758 (Calliphoridae: Diptera) in terms of forensic Entomology Hülya Aksoy Aydinli, Hakan Cakcan
PS7TH402	Sustainable agriculture through a miracle plant of Pakistan Muhammad Ashfaq, Shahzad M. Basra, Umair Ashfaq
PS7TH403	Using species of Ephemeroptera as saprobic indicator to determine water quality in Sultansuyu stream (Malatya, Turkey) Caner Aydinli
PS7TH404	Determination of diazin pesticide residue in rice by gas chromatography /mass spectrometer in Mazandaran Province in Iran Sohrab Imani, Shahzad Mohammadi, Ahmad Reza Golmohammadi, Sina Imani
PS7TH405	Epidemiological aspects of human myiasis in Iran Javad Rafinejad, Kamran Akbarzadeh, Akbar Biglarian, Fariba Bickarian, Artyeh Rafinejad
PS7TH406	Chemical analysis of spinach resistance to aphids and leaf miners Nasir Masood
PS7TH407	Biology of <i>Phalantha phalantha</i> daurya (Lepidoptera: Nymphalidae) an injurious pest of well known medicinal plant <i>Withania somnifera</i> Dunal Mahadeo Gorain
PS7TH408	Survey of relationship between birds damage and morphological characteristics of sunflower Esmail Alizadeh

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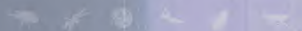
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- PS7TH409** Quantitative and qualitative wheat loss assessment at different storage structures
Shahzad Saleem, Mansoor Ul Hasan, Muhammad Sagheer, Sahal Malik Akhtar
- PS7TH410** Investigation of genetic diversity of *Hygrobatas fluvialis* (Hydrachnidia: Hygrobatidae) populations from different habitats in Iran
Mahdleh Asadi Zeidabadi, Norihide Hironaka, Alireza Saboori
- PS7TH411** A preliminary documentation of consumable Acridid (Orthoptera) species worldwide
Amlan Das, Klaus Riede
- PS7TH412** Species richness & abundance of Arctiinae (Erebidae: Noctuoidea) in Western Ghats of India
Navneet Singh, Jagbir Singh
- PS7TH413** Antimicrobial activity and composition of *Artemisia judaica* L. essential oil from Egypt
Omar Mohamed Zayed, Hany Kamel Abd El-Hady
- PS7TH414** Pollen analysis in honeys collected from Karnataka region of Nilgiri Biosphere, South India
Sivaram Venkataramegowda, Roopa P., Shubhrajith Ramanath, Gunama Sundarapong
- PS7TH415** Physicochemical characteristics and pollen analysis of honeys from western ghats of Karnataka, South India
Shubharani Ramanath, Sivaram Venkataramegowda
- PS7TH416** Determination of major constituents of honeybee venom from Korea
SangMi Han, Haju Baek, Hyung Joo Yoon, Joongmin Kim, Seohuk Park
- PS7TH417** Royal jelly reduces melanin synthesis through down regulation of tyrosinase expression
SangMi Han, Yoonhee Cho
- PS7TH418** Silk fibroin for guided bone regeneration
HaeYong Kweon
- PS7TH419** Preparation and characterization of regenerated *Antheraea pernyi* silk fibroin
KwangGil Lee, HaeYong Kweon
- PS7TH420** Thick flexible silk fibroin biological membrane
Yoo Young Jo, HaeYong Kweon
- PS7TH421** Pollinating activity of 3 species of insects, *A. mellifera*, *O. cornifrons*, *B. terrestris*, in Japanese apricot field
In Gyun Park, Mi-Ae Kim, Hyung Joo Yoon, Kyeong Yong Lee
- PS7TH422** The influence of soil exposure methods on toxicities of insect growth regulators (IGRs) for *Paranura rosea* (Collembola)
Yun-Sik Lee, Jino Son, Youngeun Kim, Sami Yu, Hyeon-Ho Mo, Kyong Cho
- PS7TH423** Complete comparative genomic analysis of *Bombyx mori* nucleopolyhedrovirus-K1, K4 and K5 strains isolated in Korea
Won Il Heo, Jae Bang Choi, Sung Min Bae, Tae Young Shin, Yeon Ho Jo, Byung Rae Jin, Soo Dong Wlim
- PS7TH424** Production of porcine circovirus type 2 capsid protein by the fusion expression with baculovirus partial polyhedrin in insect cells
Aun Beom Lee, Sung Min Bae, Hee Jung Kim, Won Il Heo, Jae Bang Choi, Tae Young Shin, Yeon Ho Jo, Byung Rae Jin, Soo Dong Wlim
- PS7TH425** Antimicrobial effects on *Propionibacterium acnes* of extracts from Korean propolis
Soeun ok Woo, Sangmi Han, In-Pyo Hong, Yong-Soo Choi, Kwang-Gil Lee, Myeong-Lyul Lee
- PS7TH426** Development of [Ecology experience kit displaying photo-tactic insects] to activate the insect industry
JinJiu Lee, HeeDong Kim, HaeGil Lee, SangHyun Lee, ArGyeong Seo, ChangSang Kang, HwangBe Lee, YoungJip Park
- PS7TH427** Trapping time effect on a Korean strain of the entomopathogenic nematode, *Steinernema carpocapsae*
DongWoon Lee, Ho Yul Choo
- PS7TH428** Cloning and characterization of *Pieris rapae* granulovirus chitinase gene
Seunghwan Oh, Dong Hyun Kim, Bhanu BhutanPantak, Yong Hun Jo, Mi Young Noh, Hyosung Lee, Kwang Ho Lee, Kwang Ho Yoon, Wan-Jong Kim, Ju Young Noh, Hun Cheon Jeong, Yong Seok Lee, Chuan-W Zhang, In Seok Song, Yeon Soo Han
- PS7TH429** Molecular and Immunohistochemical characterization of granulins gene encoded in *Pieris rapae* granulovirus genome
Seunghwan Oh, Dong Hyun Kim, Bhanu BhutanPantak, Yong Hun Jo, Mi Young Noh, Hyosung Lee, Kwang Ho Lee, Kwang Ho Yoon, Wan-Jong Kim, Ju Young Noh, Hun Cheon Jeong, Yong Seok Lee, Chuan-W Zhang, In Seok Song, Yeon Soo Han
- PS7TH430** Cloning and genomic structure of superoxide dismutase-1(sod1) gene from the entomopathogenic fungus, *Cordyceps psinosa*
Joo Yeon Kim, Nam Sook Park, Sang Mang Lee
- PS7TH431** Effects of aqueous extracts of basil, *Ocimum basilicum* L., Sodom's apple, *Cafrotropis procera* Ait and Coriander *Coriandrum sativum* L. flea beetle *Podagrica* spp. on okra crop
Faiza Elgaali Elhassan Salah, Rehab Elkarim Fadawi, Mohamed Hamza Z. Elabaden, Esmat Mohamed Elwan

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PS7TH432	Effects of aqueous extracts of basil, <i>Ocimum basilicum</i> L., Sodom's apple, <i>Calotropis procera</i> Ait and Coriander <i>Coriandrum sativum</i> L. on leaf miner, <i>Liriomyza</i> spp., on okra crop Rehab Elkamel Fadwal, Faiza Elgail Elhassan Salah, Mohamed Hamza Z. Elabdeen, Elamin Mohamed Elamin
PS7TH433	Molecular shift in insecticidal proteins: I. Evidence of beneficial trait deterioration in nematode-symbiotic bacterium complex Cheng Bai
PS7TH434	Characteristics of a BT strain with high insecticidal activity Cheng Bai
PS7TH435	Chikungunya an alphaviral infection: Emerging threat in urban area of Bangalore, India Mohammad Nazrul Islam, Zuklele Mohammad, Sherwani Amk, Ghosh Sk
PS7TH436	Epiblema strenuana: Challenges for its use as a biological control agent for the invasive plant <i>Parthenium hysterophorus</i> in Africa Andrew John McConnachie, Lorraine Wallace Strathie
PS7TH437	Antiviral role of mosquito ubiquitin Tanya Colpitts, Michael Conway, Erol Fikrig
PS7TH438	The effects of Thai herbal essential oils on the oviposition-deterrent and ovicidal activities of <i>Aedes aegypti</i> (Linn.), <i>Anopheles dirus</i> (Peyton and Harrison) and <i>Culex quinquefasciatus</i> (Say) Siriporn Phasomkusalsil
PS7TH439	Hyperparasitoids and biological control of insect pests: Differential vulnerability of primary parasitoids to obligate hyperparasitism can mitigate trophic cascades Robert Sicelo Nofemela
PS7TH440	Morphometric, molecular and biological studies of the <i>Thrips tabaci</i> Lind. (Thys: thripidae) populations collected from onion and tobacco in Iran Lida Fekrat, Shahab Monavi, Parviz Shishehbar
PS7TH441	Study on population dynamics of <i>Diaphorina citri</i> Kuwayama (Hemiptera: Psyllidae) in Baluchestan Behnam Matamedinia, Qodratalah Sobahi
PS7TH442	Efficacy of organic and synthetic insecticides on the control of cotton pests: The bollworm complex, <i>Helicoverpa armigera</i> , <i>Diparopsis castanea</i> and <i>Earias insulana</i> for small-scale farmers Lawrence Nkosikhona Malinga
PS7TH443	Late instar western tent caterpillars thrive on tough mature leaves Rana M Sarfraz, Heather Khanrubak, Judith H. Myers
PS7TH444	Spectrum, stability and durability of monolocus and pyramided lines with green rice hopper [Grh] resistance genes Vu Quynh
PS7TH445	Potential of <i>Paecilomyces lilacinus</i> for control of <i>Anastrepha ludens</i> Ricardo Toledo Hernandez
PS7TH446	Forensic Entomology on the Gauteng Highveld, South Africa Allison Elizabeth Gilbert, Belinda Spillings, Lizette Koekemoer, Maureen Coetzee
PS7TH447	Specific activity distribution of acetylcholinesterase and its gene ace2 expression in the bumblebee <i>Bombus hypocrita</i> (Hymenoptera: Apidae) Shudong Luo, Xuli Liao, Jialin Liu, Jie Wu
PS7TH448	Improved performance of Azadirachtin and Matrine insecticides by plant oil for chemical control of the leafminer, <i>Liriomyza sativae</i> Blanchard (Dip: Agromyzidae) in cucumber Ahmad Baghdadli, Fatemeh Soberfar, Aziz Shaekhi
PS7TH449	Sublethal effect of two conventional insecticides on life table parameter of ectoparasitoid <i>Habrobracon hebetor</i> (Say) (Hymenoptera: Braconidae) Ahmad Baghdadli, Hassan Morsali
PS7TH450	Fauna of the family Laelapidae (Acar: Mesostigmata) in apple orchards of Salmas region, west Azarbaijan Province, Iran Mohammad Hossein Kazemi, Sedigheh Alizadeh, Davood Shirdeh, Heidar Adilsoori, Nouraddin Shayesteh
PS7TH451	Some of the mesostigmatic mites (Acar: Mesostigmata) in apple orchards of Salmas region, West Azarbaijan Province, Iran Mohammad Hossein Kazemi, Sedigheh Alizadeh, Davood Shirdeh, Heidar Adilsoori, Nouraddin Shayesteh
PS7TH452	Effects of silver nanoparticles (Ag NPs) and polymers on stored pests for improving the industry of packaging foodstuffs Somaye Allahvali

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PS7TH453	The investigation of different polymers resistance against penetration of <i>Rhyzopertha dominica</i> F. (Col. Bostrychidae) and CO ₂ gas Samaye Allahvalsi
PS7TH454	Study of different polymer coverings for reducing the contaminations of cereals packagings in stores Samaye Allahvalsi
PS7TH455	Application of microwave radiation for controlling Tobacco beetle and studying packaging polymers to preserve cereals Samaye Allahvalsi
PS7TH456	Estimating of phosphine (PH ₃) gas effective quantities on different development stages <i>Plodia interpunctella</i> (Hb.) in passing from nut packages in store Samaye Allahvalsi
PS7TH457	The investigation of protein effects on fertilization <i>Tribolium castaneum</i> (Col.: Tenebrionidae) in wheat stores Samaye Allahvalsi
PS7TH458	Oral toxicity of entomopathogenic symbiotic bacterium <i>Photobacterium temperata</i> against various insects and nematodes M. D. Asaduzzaman, Yam Kumar Shrestha, Jin-Young Ahn, Jee-Kyoung Shim, Young-Jin Lee, Kyeong-Seul Lee
PS7TH459	Evaluation of <i>Solenostemma argel</i> extracts for their potential larvicidal activities against <i>Anopheles arabiensis</i> Patton (Diptera: Culicidae) Amal Elsayed Edriss, Abdalla Abdelrahman Satti, Zuker Afafel Alalya
PS7TH460	Effects of thiamethoxam on feeding and tunneling activities of the termite <i>Microcerotermes diversus</i> Silvestri (Isoptera: Termitidae) under laboratory conditions Zainab Sarah Fathallah
PS7TH461	Transfer of thiamethoxam from exposed to non-exposed workers of <i>Microcerotermes diversus</i> Silvestri (Isoptera: Termitidae) Zainab Sarah Fathallah
PS7TH462	Differential response of male and female adult banana weevil, <i>Odoiporus longicollis</i> Olivier (Coleoptera: Curculionidae) to fresh and rotten host cues Kamala Jayanthi Pagadala Damodaram, Virek Kaniyappan, Ravindra Anupriya, Abraham Vinayachandran
PS7TH463	Trichome based defense in different cultivars of brinjal on neonates of Brinjal fruit and shoot borer, <i>Leucinodes orbonalis</i> Kamala Jayanthi Pagadala Damodaram, Ravindra Anupriya, Virek Kaniyappan, T.H. Singh, Abraham Vinayachandran, Vinayachandran N. S. Raju
PS7TH464	Whitely resistance in tomato Floor van den Elzen, Joak van Heerden, Colette Bouwknegt, Maryel Dijk, Ben Vosman
PS7TH465	Toxicological potential of peel extract of <i>Citrus limon</i> against <i>Tribolium castaneum</i> , <i>Sitophilus granarius</i> and <i>Cryptolestes ferrugineus</i> under laboratory conditions Fawad Zafar Ahmad Khan, Mohammad Saqib, Mansoor ul Haqary, Hassan Ali, Jaffer Hussain
PS7TH466	Phytochemical analyses of five sudanese plants for their constituents of biologically active compounds Abdalla Abdelrahman Satti, Amal Elsayed Edriss
PS7TH467	Courtship and mating behaviors of <i>Phyllotreta striolata</i> (Fabricius) (Coleoptera, Chrysomelidae) Hualong He, Shuying Bin, Antian Lin
PS7TH468	Fumigation and packaging integrated effects for reducing <i>Callosobruchus maculatus</i> F. (Col: Bruchidae) contaminations in stores Samaye Allahvalsi
PS7TH469	Investigation on the efficacy of Oberon in comparison with three medicinal plants essential oil (Spearmint, Cumin and Lime) on the developmental stages of <i>Trialeurodes vaporariorum</i> West. Mahn Fahim, Mohammad Hassan Safarizadeh, Sayed Ali Saffari
PS7TH470	Efficacy assessment of <i>Isaria fumosorosea</i> and SilicoSec against <i>Tribolium castaneum</i> , <i>Rhyzopertha dominica</i> , <i>Cryptolestes ferrugineus</i> and <i>Liposcelis poeta</i> Wagdy Waki, Muhammad Yasin, Yong Jung Kwon, Tullia Bignardi, Umami Ghannadi, Afraji/Abdul Qayum
PS7TH471	Evaluation of bio-control agents for the control of fruitborer <i>Helicoverpa armigera</i> (Hübner) in the fields of tomato crop Wagdy Waki, Muhammad Tahir, Yong Jung Kwon, M. Zuhair Ghannadi, Afraji/Abdul Qayum, Tullia Bignardi
PS7TH472	Demographic parameters of cowpea aphid, <i>Aphis craccivora</i> (Homoptera: Aphididae) reared on botswana cowpea landraces Motalepa Machacha, Motshwari Obopile, Aukelile Boyse, Tshenafatsa, Chingiso Rapaile, Motalepa Motokgweni

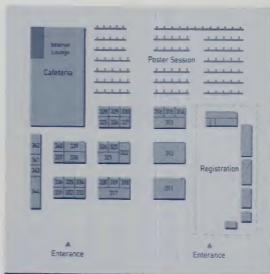
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PS7TH475	Studies on aphid pests of apple in orchards of Himachal Pradesh state of India <i>D.C. Gautam, Meena Kumari</i>
PS7TH476	Phytosanitary risk of bruchids in import of legume germplasm in India <i>Shashi Bhalla, Manju Lata Kapur, Kavita Gupta, Charen Singh, Prakash Chandra Agarwal</i>
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PS7TH478	Effect of different temperature regimes on the development of <i>Bracon hebetor</i> (Say) (Hymenoptera: Braconidae) and its parasitism <i>Rashid Rasool Khan, Muhammad Ashfaq, Sohail Ahmed, Khuram Zia, Muhammad Arshad, Muhammad Dilidar Gogi</i>
PS7TH479	Behavior of insect-pests and pathogens on the cones and seeds of <i>Pinus gerardiana</i> (Chilgozapine) <i>Pawan Kumar</i>
PS7TH480	Isolation and identification of Alfalfa mosaic virus from Egypt <i>Sahar Hassan El Helaly, Amin Abo El-Ghar, Awad Mohamed Ahmed, Amal Farhaly</i>
PS7TH481	Behavior of insect-pests and pathogens on the cones and seeds of <i>Pinus gerardiana</i> (Chilgozapine) <i>Pawan Kumar</i>



XXIV
International
Congress of
Entomology

Exhibition

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Exhibitor Profiles

The Entomological Society of Korea

Booth Number: 332

Address: Korea University, College of Life Science(Nokji533), 5-ga, Anam-dong, Sungbuk-Gu, Seoul 136-713, Rep. of Korea
Telephone: +82 2 3290 4260
Fax: +82 2 3290 3623
Homepage: www.korentsoc.org
E-mail: entokog@korea.ac.kr

The Entomological Society of Korea(ESK) was founded on November 1970. The ESK not only contributes to the development of Entomology through study of related fields and the insects, but also has the objective in promoting fellowship among the members. The head office of ESK is located at Korea University, Seoul.

The regular academic meeting and symposium of ESK has been held two time in a year with national and international scholars accompanying special seminars. The ESK academic journal 'Entomological Research' has published to the volume 42 number 3 in May of 2012.

The Korean Society of Applied Entomology

Booth Number: 333

Address: Korean Society of Applied Entomology, Applied Entomology Division, National Academy of Agricultural Science, Rural Development Administration, 61 Seodun-dong, Suwon 441-853 Rep. of Korea
Telephone: +82 31 291 3681
Fax: +82 31 291 2137
Homepage: www.entomology.or.kr
E-mail: office@entomology.or.kr

The Korean Society of Applied Entomology was established in 1962. The society began as the Korean Society of Plant Protection, and changed its name in 1988. The KSAE serves the professional and scientific needs of entomologists and people in related disciplines in Korea. The membership represents educational institutions, health agencies, private industry, government, and etc. Members are related with basic and applied area concerning insects, mites or other arthropods and nematodes of economic importance in agriculture, forestry, industry, human and animal health, and natural resource and environment management. The KSAE publishes two journals, Journal of Asia-Pacific Entomology and Korean Journal of Applied Entomology. The KSAE holds two conferences annually.

The Apicultural Society of Korea

Booth Number: 334

Address: Seodun-Dong 61, Kwonseon-Gu, Suwon 441-100, Rep. of Korea
Telephone: +82 31 290 8528
Fax: +82 31 290 8503
Homepage: www.bee.or.kr
E-mail: beechol@korea.kr

The Apicultural Society of Korea (ASK) was founded in 1986 as a non-profit organization to promote the apiculture. The ASK was established to support domestic apicultural scientists and beekeeping association together actively to develop new apiculture technologies in apiculture science for industrial application in beekeeping.

Korean Journal of Apiculture (KJA) is published quarterly per year(30 April, 30 July, 30 October and 30 December) by the Apicultural Society of Korea.

The ASK has an international scope with a broad constituency of scientists interested in the biology, food science, forestry, medical, agriculture and veterinary importance of hymenopteran insects.

The Korean Society of Sericultural Science

Booth Number: 335

Address: 61-1 Seodun-dong, Suwon, GyeongGi-Do, Rep. of Korea
Telephone: +82 31 290 8509
Fax: +82 31 290 8516
Homepage: www.jsse.or.kr
E-mail: hykweon@korea.kr

The Korean Society of Sericultural Science established in 1957 is the academic society for the development of sericultural science. Sericultural science is multidisciplinary study including mulberry, silkworm rearing, insect pathology, and silk science. It holds academic meetings biannually and publishes two scientific journals; International Journal of Industrial Entomology (English) and Journal Sericultural and Entomological Science (Korean). International Journal of Industrial Entomology (Int J Indust Entomol, IJIE) is an international journal devoted to industrial interest and knowledge concerning insects and their products. It is published quarterly and accepts manuscripts written in English. Journal of Sericultural and Entomological Science (J Seric Entomol Sci) is a Korean journal covering mulberry and silkworm culture, insect pathology and biotechnology, silk science, and insect resources for human beings. It is published biannually.

Korea Tourism Organization

Booth Number: 312

Address: 40, Cheonggyecheon-ro, Jung-gu, Seoul, Rep. of Korea
Telephone: +82 2 729 9556
Fax: +82 2 778 2326
Homepage: www.kto.or.kr
E-mail: sylph81@kto.or.kr

Korea Tourism Organization (KTO) hopes not only to stimulate the Korean tour industry, but also further share Korean Culture with the world. Come and see the real Korea!

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Booth Number: 317

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Telephone: +82 2 3777 1114
Homepage: www.lg.com

LG Electronics Air Conditioning & Energy Solutions Company (LG AE) provides total solutions in Heating, Ventilation, Air Conditioning (HVAC) and Energy. Through its innovative technology and heavy investments in R&D, LG AE has been providing not only comprehensive, energy efficient and environment friendly solutions, but also provides Unique Mosquito Repellent Technology to customers with mosquito protection needs. Through the ICE 2012, LG AE will introduce its efforts in developing Mosquito Repellent Technology through an Air Conditioner.

Buan-gun Office

Booth Number: 313

Address: 91, Dangsan-ro, Buan-eup, Buan-gun, Jeollabuk-do, Rep. of Korea
Telephone: +82 63 580 4831
Fax: +82 63 580 4795
Homepage: www.buan.go.kr
E-mail: Kyseulm1@korea.kr

Buan is full of great sceneries, historical legacies, culture, and tour sites.

There are several delicacies in Buan, such as lever from the clean sea, webfoot octopuses, cuttle fish, and gizzard shads. Our county is bountiful and happy and neighbors are friendly. Buan is also called as "생혜택안" (Sang hwal Buan; the meaning can be interpreted as "helping life to be comfortable.") In the future, Buan plans to set high goals and visions for the 21st century and will strive to play an important role in the west coast era. The construction of the Saemangeum Sea Wall, which is 33 km long and is the longest sea wall in the world, will be the driving force for future development.

Jinan-gun Green Red Ginseng Cluster Project Group

Booth Number: 314

Address: 1166 Jinmyo-ro, Jinan-eup, Jinan-gun, Jeollabuk-do, Rep. of Korea
Telephone: +82 63 433 9308
Fax: +82 63 433 8397
Homepage: www.jinansam.com
E-mail: roodg@hanmail.net

Jinan-gun is the most famous town of Korean Red Ginseng. Jin-an Red Ginseng, a typical local product of Jinan-gun is produced in mount Ma-i which is located in 400 meters above the sea level. The Red Ginseng is well known for its excellent efficacy at home and abroad.

Chonbuk National University

Booth Number: 315

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Telephone: +82 63 270 4627
Fax: +82 63 270 2020
Homepage: www.jbnu.ac.kr
E-mail: jrc@jbnu.ac.kr

Chonbuk National University (CBNU) is a dynamically changing university. We excel in the areas of research and university-industry cooperation, and it places an importance in the quality of education for our students. CBNU is on the cutting edge of innovation throughout five campuses with 14 colleges, 1 faculty, 4 professional graduate schools, 1 general graduate school, 9 specialized graduate schools and a student body of 32,000. Since its foundation, CBNU has produced over 200,000 graduates and they are contributing to international society as global leaders. The Times Higher Education and Thomson Reuters 2010 World University Rankings placed CBNU 6th nationally among comprehensive universities, 273rd globally. With outstanding research, active university-industry cooperation, and high quality education, CBNU is going to become Korea's growth driver.

JEONNAM. Korea Insect Industry Association(Jeonnam branch)

Booth Number: 316

Address: Ohryong street 1, Namak-ri, Samhayang-eup, Muan-gun, Jeollanam-do, Rep. of Korea
Telephone: +82 61 247 0011
Homepage: www.jeonnam.go.kr/mbs/jeonnam

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Dong Sung Pharm. Co., Ltd.

Booth Number: 318

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Since its founding in 1957, Dong Sung has advanced technologically, while at the same time developing the highest quality products and strengthening its position as one of Korean leading pharmaceutical companies. Currently, we possess Korean largest production facilities, hold 40 percent of the domestic hair dye market and are renowned for the safety, efficacy and quality of our pharmaceutical products. Our success reflects the exceptional teamwork and commitment of the Dong Sung team to delivering the highest quality service to you, our customers. It also reflects your belief and support in Dong Sung.

Osangkinsect

Booth Number: 319

Address: 91-4, Sunam-ri, Dong-myeon, Cheonan-city, Rep. of Korea
Telephone: +82 41 551 3660
Fax: +82 41 555 3661
Homepage: www.greenipm.co.kr
E-mail: hameunhye@hotmail.com

Osangkinsect is the national market leader of biological crop protection and biological resources industry. Osangkinsect is one of the best placed companies to develop simple and reliable biological control programs. We have more than 10 years of experience with biological resources industry, such as pet insect, beneficial insect, edible insect, medicinal insect, environment-friendly agricultural materials, etc.

As a research facility, Inst. for Bioresources of Osangkinsect is unique in offering a complete range of research options, from laboratory tests up to full scale field studies. As a result of intensive cooperation between researchers and the biological control practitioners, it is expected that these developments will result in a rapid improvement of the biological control industry.

GAIA Co. Ltd

Booth Number: 320

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Entomological Society of America

Booth Number: 322

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Telephone: +1 301 731 4535
Fax: +1 301 731 4538
Homepage: www.entsoc.org
E-mail: esa@entsoc.org

The Entomological Society of America (ESA) is the premier worldwide organization serving the professional and scientific needs of entomologists and others in related disciplines. Founded in 1889, ESA has more than 6,400 members affiliated with educational institutions, health agencies, private industry, and government. Members are entomologists, plant pathologists, pest control professionals, agronomists, biologists, zoologists, taxonomists, research technicians, consultants, students, educators and others who study insects. ESA publishes five internationally-acclaimed scientific journals that provide unsurpassed coverage of the broad science of entomology. ESA's Annual Meeting brings 3,400 researchers together for four days of scientific presentations covering all aspects of insect science.

Insect Biotech Co., Ltd.

Booth Number: 323

Address: 1628-36d, Yuseong Blvd, Yuseong-gu, Daejeon, Rep. of Korea
Telephone: +82 42 862 8440
Fax: +82 42 862 8441
Homepage: www.insectbiotech.co.kr
E-mail: webmaster@insectbiotech.co.kr

Insect Biotech was established in 2000 as a spin-off company from Korea Research Institute of Bioscience and Biotechnology(KRIBB) for utilization of insects, related microorganisms and bio-diversity which are the most diversified and abundant on the earth. Insect Biotech pursues the R&D and production of industrial enzymes, pharmaceuticals, functional foods, functional cosmetics, animal feed additives, and other bioactive substances for our healthy, wealthy and beautiful life in harmony with the nature.

Korea Research Institute of Bioscience & Biotechnology

Booth Number: 324

Address: 125 Gwaak-ro, Yuseong-gu, Daejeon, Rep. of Korea
 Telephone: +82 42 860 4114
 Fax: +82 42 861 1759
 Homepage: www.kribb.re.kr

KRIBB is the only government research institute dedicated to biotechnology research across a broad span of expertise, from basic studies for the fundamental understanding of life phenomena to applied studies such as new drug discovery, novel biomaterials, integrated biotechnology, and bio-information. KRIBB will contribute to Korea's economic development and people's welfare and lives. We will make dreams become reality. We ask you to continue your special interest and your ardent support in us.

Korea Forest Research Institute

Booth Number: 325

Address: 57 Hoegi-ro, Dongdaemun-gu, Seoul,
 Rep. of Korea, 130-712
 Telephone: +82 2 961 2521
 Fax: +82 2 961 2679
 Homepage: www.forest.go.kr
 E-mail: kfr@forest.go.kr

Korea Forest Research Institute is investigating about mitigation of the effects of climate change, which is one of the forest's fundamental roles, maintenance of biodiversity, prevention of desertification, etc. in order to maintain natural environment healthy, improve human health through forest's self-purification capacity and healing effects, increase the owners of forestry and rural population's income through adequate production of forest, and to improve local areas and forestry industry that produce fresh high-quality goods. We look forward to make progress and keep investigating in order to make forest facilitate green development with low level of carbon dioxide, develop forest as a high-value-products industry, and use this forest industry as a fuel of the nation's economic growth. We will enable you to receive all the benefits that forest offers by strengthening practical field investigation that you can actually feel and experience.

Gyeonggi-do Agricultural Research & Extension Service

Booth Number: 326

Address: 315 Gilsan-dong, Hwaseong-city Gyeonggi-do 445-84,
 Rep. of Korea
 Telephone: +82 31 229 5893
 Fax: +82 31 229 5968
 Homepage: www.nongup.gyeonggi.kr
 E-mail: cho@gg.go.kr

- Raising useful insects to develop indigenous natural predators and Marketing for new income resources.

- Development of region of focusing varieties and new varieties
- Development of region of focusing varieties and new varieties
- Production and supply of high quality varieties and farming site agriculture technology
- Development and supply of highly profitable industrialized agriculture and low carbon green development technology
- Educate farmers about new technology and develop regional agriculture
- Educate agricultural professionals and their study groups

Jeonnam Bio Control Center

Booth Number: 327

Address: 495, Immyeon-ro, Im-myeon, Gokseong-gun,
 Jeollanam-do, Rep. of Korea, 516-942
 Telephone: +82 61 362 0630
 Fax: +82 61 362 0631
 Homepage: www.jbcc.re.kr
 E-mail: sunam0907@naver.com

The hub of environment-friendly agriculture! The Jeollanam-do Bio Control Center (JBCC) is equipped with state-of-the-art facilities and equipment for the production of natural enemies, seeds, and environment-friendly agricultural products, etc. Also the JBCC performs R&D of agro-bio materials, the analysis of agricultural materials and pesticide residues, etc. The Jeollanam-do Bio Control Center (JBCC) was established in 2006 for R&D, production and industrialization of natural enemies, seeds and environment-friendly agricultural products and it is the environment-friendly agro-bio industry cluster for biological control. The JBCC's vision is to make a great contribution to the vitalization of the local economy and environment-friendly agriculture by achieving annual sales of KRW 100 billion and attracting 50 companies by 2016.

Taylor & Francis

Booth Number: 328

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icipe

Booth Number: 330

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Telephone: +254 20 8632101

Fax: +254 20 8632001/2

Homepage: www.icipe.org

E-mail: icipe@icipe.org

icipe - African Insect Science for Food and Health (www.icipe.org), is a pan-African research and development centre with operations in 30 countries in sub-Saharan Africa. The Centre's R&D philosophy is encapsulated in its 4-H paradigm, focusing on human, animal, plant and environmental health with arthropods as the common denominator. Our work focuses on green and sustainable pest control strategies, with a particular emphasis on biological and integrated control, and is complemented by strong ties to many universities and research organizations in Africa, Asia, Europe and North America. icipe will showcase products derived from its agricultural research, extension, education, training and development work.

National Institute of Biological Resources

Booth Number: 331

Address: Environmental Research Complex, 42 Nanji-ro, seo-gu,

Incheon, Rep. of Korea

Telephone: +82 32 590 7232

Fax: +82 32 590 7040

Homepage: www.nibr.go.kr

E-mail: dpt510@korea.kr

The NIBR was established in 2007 to create an efficient preservation and management system for biological resources and biodiversity, build a infrastructure to support the bio-technology industry and enhance national competitiveness, increase public awareness on biological diversity and the importance of biological resources. We have cooperated with international research organizations, signing a MOU with 17 biological organizations from 12 countries and we are engaged in diverse collaborative projects with global institution include joint biodiversity surveys, financial and technical aids, construction of advanced research facilities, professional training programs, exchange of specimens and collaborative workshops.

KOREABIO Co., Ltd.

Booth Number: 336

Address: 288-1, Mangwol-r1, Jeongnam-myun, Hwasung-city, Kyunggi, Rep. of Korea

Telephone: +82 31 354 8183

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Elsevier

Booth Number: 337

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Telephone: +31 20 485 3798

Fax: +31 20 485 3228

Homepage: www.elsevier.com

E-mail: d.seaton@elsevier.com

As a global publisher of science and health information and tools, Elsevier serves more than 30 million scientists, students, and health and information professionals around the world. Our leading entomology publications include titles such as Journal of Asia-Pacific Entomology, Insect Biochemistry and Molecular Biology, Journal of Insect Physiology, Arthropod Structure & Development, and Journal of Invertebrate Pathology.

Find us at booth #337, to find out more about our publications in entomology.

Korea Beekeeping Association

Booth Number: 338

Address: 1621-19 Seocho 1-dong, Seocho-gu, Seoul 137-070, Rep. of Korea

Telephone: +82 2 3486 0882-5

Fax: +82 2 3486 0886

Homepage: www.korapis.or.kr

E-mail: apiary@chol.com

Korea Beekeeping Association is a nonprofit organization for producers which has been making its ceaseless efforts to protect rights and interests of some 40,000 domestic beekeeping farmers and to promote advancement of apicultural industry for 44 years since it was established in 1967. Accordingly, we are endeavoring to promote to advancement of apicultural industry and practice green growth through research projects to improve quality of bee products, honey plant cultivation projects to build foundation for apicultural industry, beekeeping technology research and information exchange projects through international organizations, and honey bee food product development research projects.

Springer

Booth Number: 339

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 Homepage: www.springer.com

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The Royal Entomological Society

Booth Number: 341

Address: The Mansion House, Chiswell Green Lane, St. Albans, UK
 Telephone: +44 (0) 1727 899 387
 Fax: +44 (0) 1727 894 797
 Homepage: www.royensoc.co.uk
 E-mail: info@royensoc.co.uk

The Royal Entomological Society exists to promote the dissemination of knowledge in all fields of Insect science. It is the principal society in the United Kingdom for professional entomologists, and has overseas members, as well as strong amateur membership.

The Royal Entomological Society was founded in 1833 as the entomological Society of London and it is the successor to a number of short-lived societies dating back to 1745. To find out more, visit www.royensoc.co.uk.

Wiley-Blackwell

Booth Number: 342

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KOREA SERICULTURAL ASSOCIATION

Booth Number: 343

Address: Silk Center BLDG., 17-9, Yoido-dong, Yongdeungpo-ku, Seoul, Rep. of Korea
 Telephone: +82 2 783 5071-5
 Fax: +82 2 780 0706
 Homepage: www.silktopia.or.kr
 E-mail: silkasn@chol.com

- Support for maintaining sericulture production basis
- Development & Supply of excellent artificial diet for silkworms
- Production guide, arranging marketing system and PR to extend the consumption of sericultural products
- Efficient management of sericulture Promotion Funds
- Silk Cultural Activities(KOREA Silk Museum)
- International Cooperation in Silk

Job Room/Young Entomologists and Women Entomologists Joint Committee

Booth Number: 344

This committee has developed exciting and fun events for ICE 2012 attendees. The committee 1) set up Facebook and Twitter pages for networking and questions/answers, 2) will have a job board set up at the exhibit hall, and 3) organize some spontaneous gatherings, meetings, or outings for attendees during the conference.

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